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August 25, 2014

Akhter Hossain, PE  
Engineering Associate  
Kansas Department of Health and Environment  
Bureau of Waste Management  
Hazardous Waste Permits Section  
Curtis State Office Building  
1000 SW Jackson, Suite 320  
Topeka, KS 66612-1366

**RE: Submittal & Certification of Building D and Rafter Tank Rinsate Sample Results,  
Clean Harbors Facility  
Wichita, Kansas**

Dear Mr. Hossain;

In conjunction with and on behalf of Clean Harbors (CH), GeoStat Environmental, LLC (GeoStat), iSi Environmental (iSi), and Cameron-Cole (C C) are cooperatively providing the attached submittal of analytical results in support of RCRA closure activities at the subject site. The intent of this transmittal is to provide analytical results to KDHE and USEPA to determine the suitability of these materials for on-site and off-site disposal. A stamped and signed certification stating that the rinsate sampling effort(s) were observed and overseen by a Kansas Professional Engineer is also provided. Subsurface soil samples were not observed by the certifying engineer and are therefore not subject to certification.

Building D had previously been emptied of permitted waste and/or waste processing equipment prior to the commencement of site activities. Decontamination began with general cleaning, and power-washing of Building D and the enclosed Rafter Tanks which began on January 13, 2014. Waste water and any silts and/or solids generated during the decontamination and rinsing of the on-site buildings and tanks has been contained in a large frac tank on-site (Tank No. SV 34730L). Waste water generated during decontamination activities at the Site will be transported off-site for disposal at an appropriate facility once a sufficient volume of rinse water has been generated. Misc. piping, fittings, and small equipment, and any residual materials contained within that was removed for access to tanks for cleaning, or was too small for effective decontamination was removed and cut-up or reduced in size for disposal at Lone Mountain. These items were appropriately contained (drums or roll-off boxes), characterized, manifested, and transported for disposal. Hazardous waste inventories and manifest information will be submitted under separate cover at a later date.

Triple rinsing was followed by the collection of the initial rinsate sample round, which occurred on January 29 and 30, 2014. Results of the initial sampling round indicated that some low level

volatile organic constituents were detected within the rinsate, CH elected to re-wash, rinse, and re-sample rinsate from several of these areas or tanks, the resampling occurred on February 19 and 24, 2014. About half of the rafter tanks were not sampled initially, and were then sampled during the February 24, 2014 sampling event. Results of the second round of rinsate sampling demonstrated lower levels of organics and lower levels of common metals and mineral compounds.

Room 7 of Building D was only recently cleaned and triple rinsed beginning July 28, 2014 with rinsate sampling occurring on July 31, 2014. The delay in rinsing and sampling Room 7 was partially due to work progression on other areas of the site, and also due to Room 7 having a deteriorated soft ceiling consisting of gypsum drywall ~1/2" thick, the drywall was missing in areas where it had already fallen down and was wet (soft and loose) in others. However, much of the ceiling required the drywall be physically scraped from the ceiling, prior to pressure washing the cement above the drywall. This drywall material was added to the misc. solid materials (PPE, Piping, etc...) roll-off box that was disposed of as hazardous waste.. Hazardous waste inventories and manifest information will be submitted at a later date.

Based upon these results, Clean Harbors believes that the above grade building materials from Building D, including the cement block walls are suitable for re-use as on-site backfill (as broken & reduced size cement blocks) or for recycling (steel tanks and rafters). Porous building debris, such as roof decking materials, will not be used on-site per the approved workplan.

RFI activities (uncertified soil sampling activities) have already identified soil concentrations exceeding interim action objectives in soil immediately beneath the floor throughout almost all of Building D. Therefore, Building D's concrete flooring will be removed and segregated for disposal as hazardous waste during demolition of the building.

However, should excavation activities demonstrate that larger than expected sections of flooring within Building D are apparently not underlain with impacted soils, Clean Harbor's may then elect to separate areas of suspected clean concrete flooring material. In consultation with KDHE and USEPA appropriate under slab soil samples would then be collected, and laboratory analyzed.

Options for the disposition of the Building D concrete floor slab include;

1. On-site re-use as backfill (as broken concrete) for concrete slabs overlying soils where contamination has been demonstrated to be below interim action objectives, or
2. Off-site hazardous waste disposal (Lone Mountain) for concrete flooring overlying shallow soil concentrations exceeding interim action objectives immediately beneath the floor.

Clean Harbor's may also elect to segregate areas of suspected clean and suspected impacted concrete flooring (stained, odors, ...) as building demolition occurs. In consultation with KDHE and USEPA appropriate numbers and location of under slab soil samples will be identified, samples collected, and laboratory analyzed.

Under a separate cover letter, results will be provided to KDHE/USEPA only for determination of the disposition of the building's concrete floor slabs, not for RCRA closure determinations.



Analytical results (tabulated and full reports) from any shallow under slab soil sampling, along with mapping identifying locations, will be included within any submittal.

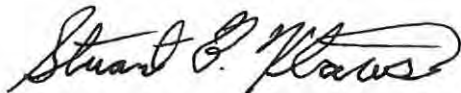
### **RINSATE SAMPLE CERTIFICATION**

Clean Harbors hereby certifies, through the undersigned third party independent Kansas licensed Professional Engineer, that the attached rinsate sampling documentation, mapping, and laboratory analytical results are representative of the areas or surfaces identified therein. Further that these areas or surfaces identified have been effectively cleaned and rinsate sampled in general accordance to the Partial Closure Plan for Buildings B, D and J approved by KDHE/USEPA on October 10, 2013.

I hereby certify under penalty of law that this document and all attachments concerning rinsate results were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The entire Clean Harbor team appreciates the continued joint cooperation of KDHE and USEPA on this project and we look forward to your timely response to this submittal. Please call me at (620) 245-4675, if you have any questions regarding this certification.

Sincerely,  
**GeoStat Environmental, LLC**



Stuart B. Klaus, PE  
Senior Engineer



#### **SUBMITTAL ATTACHMENTS:**

1. Spreadsheet of Building D Room and Rafter Tank Rinsate Analytical Results
2. Crack Survey of Building D
3. Shallow Soil Data Summary for Building D (non-certified)

cc: Chris Jump, USEPA  
Martin Smith, Clean Harbors  
Michael Stephenson, Cameron & Cole  
Brady Gerber, iSi Environmental

# **SUBMITTAL ATTACHMENTS**

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## **ATTACHMENT 1:**

### **Spreadsheet of Building D Room and Rafter Tank Rinsate Analytical Results**

#### **Including:**

- Sample Location Map**
- Rinsate Activity Tracking Sheet**
- Comparison of Results to KDHE Risk Levels**

## **ATTACHMENT 2:**

### **Crack Survey of Building D**

#### **Including:**

- Crack Survey Figure**
- Crack Survey Description Table**
- Orientated Color Photo Log of Cracks**

## **ATTACHMENT 3:**

### **Shallow Soil Data Summary for Building D**

#### **Including:**

- Soil Sample Location Figure**
- Analytical Results Table**



# **ATTACHMENT 1: Spreadsheet of Building D Room and Rafter Tank Rinsate Analytical Results**

**Including:**

- Sample Location Map**
- Rinsate Activity Tracking Sheet**
- Comparison of Results to KDHE Risk Levels**

**CLEAN HARBORS, WICHITA, KS**  
**Building D - Analytical Results**

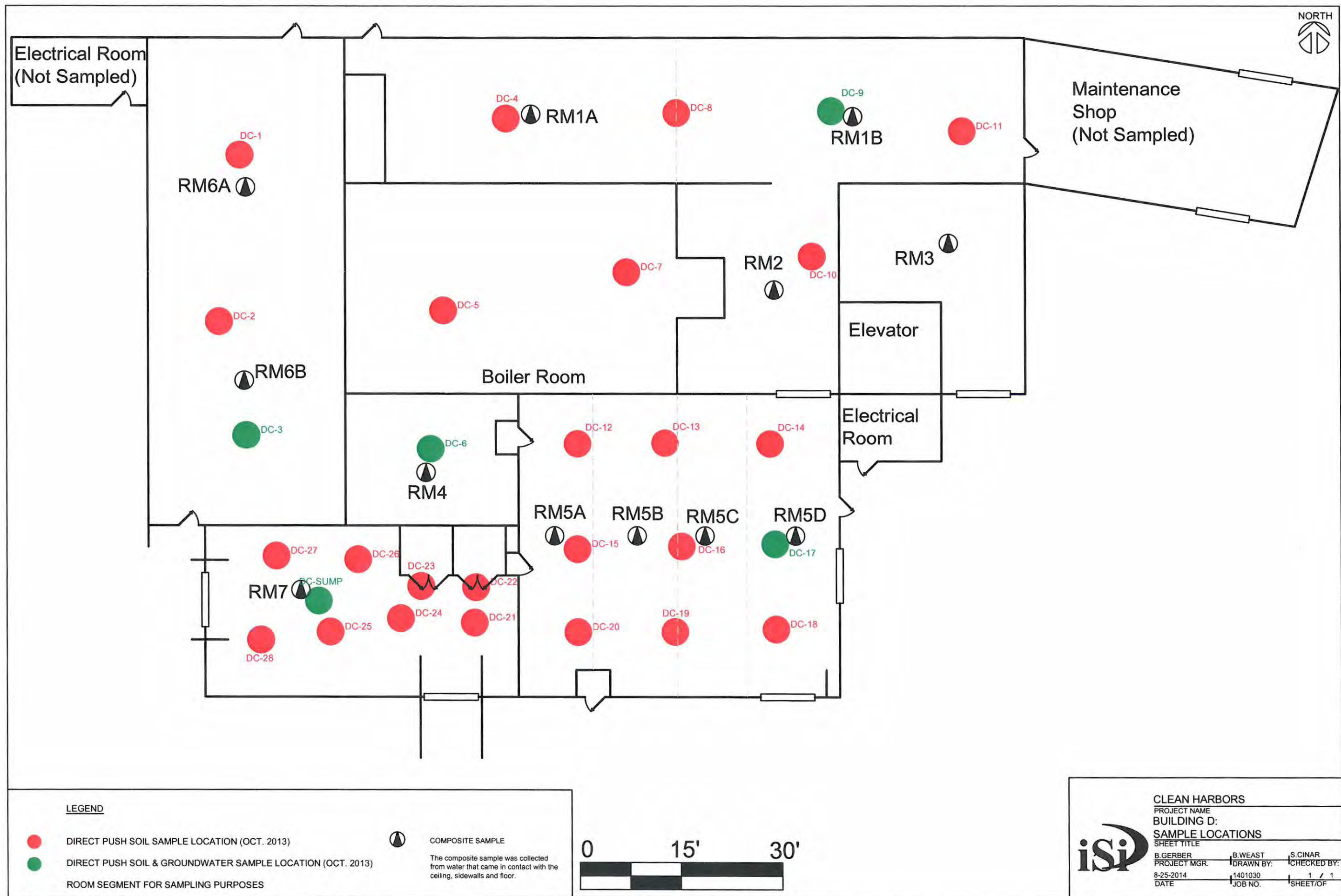
Tab		Description and Comments
<b>Contents</b>		<b>This listing of the Excel Worksheet Contents.</b>
<b>Site Map</b>		<b>Drawing Showing Locations of Structures Sampled at the Facility.</b>
<b>Building D</b>	<b>Bld D Figure</b>	<b>Drawing of Building D Showing Sample Locations as Separated into Rooms (RM#).</b>
	<b>Bld D Decon Summary</b>	<b>Summary of Decontamination and rinsate sampling events.</b>
	<b>Bld D Table</b>	<b>Table of Building D Analytical Results with comparison to KDHE Tier II RSK Levels.</b>
	<b>Bld D Resample Table</b>	<b>Table of Building D Analytical Results with comparison to KDHE Tier II RSK Levels.</b>
	<b>Bld D Resample Table II</b>	<b>Table of Building D Analytical Results with comparison to KDHE Tier II RSK Levels.</b>
	<b>Bld D Filtered Results</b>	<b>Table of select Building D Laboratory Filtered Analytical Results with comparison to KDHE Tier II RSK Levels.</b>
	<b>Bld D D&amp;F</b>	<b>Table of Building D Dioxin/Furan Analytical Results with comparison to KDHE Tier II RSK Levels.</b>

Notes: Bld = Building, D&F = Dioxin & Furan



















[illegible]







Accutest Laboratories Southeast, Inc.							
Job Number:	FA12636						
Account:	ISI Environmental Services						
Project:	Clean Harbors; Wichita, KS						
Project Number:							
					Legend:	Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards  Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4	
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5	
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014	
Matrix:			Water	Water	Water	Water	
GC/MS Volatiles (SW846 8260B)							
Acetone	ug/l	11500	-	-	-	ND (210) <sup>a</sup>	
Benzene	ug/l	5	-	-	-	ND (4.9)	
Bromodichloromethane	ug/l	80	-	-	-	ND (5.2)	
Bromoform	ug/l	80	-	-	-	ND (7.7)	
Chlorobenzene	ug/l	100	-	-	-	ND (4.8)	
Chloroethane	ug/l	14000	-	-	-	ND (10)	
Chloroform	ug/l	80	-	-	-	ND (6.2)	
Carbon disulfide	ug/l	716	-	-	-	ND (4.0)	
Carbon tetrachloride	ug/l	5	-	-	-	ND (7.9)	
1,1-Dichloroethane	ug/l	25	-	-	-	ND (5.1)	
1,1-Dichloroethylene	ug/l	7	-	-	-	ND (5.1)	

Client Sample ID:		KS Tier 2 Risk Based Standards  Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
1,2-Dichloroethane	ug/l	5	-	-	-	ND (4.8)
1,2-Dichloropropane	ug/l	5	-	-	-	ND (7.1)
Dibromochloromethane	ug/l	80	-	-	-	ND (7.2)
cis-1,2-Dichloroethylene	ug/l	70	-	-	-	ND (6.5)
cis-1,3-Dichloropropene	ug/l	-	-	-	-	ND (4.2)
trans-1,2-Dichloroethylene	ug/l	100	-	-	-	ND (6.9)
trans-1,3-Dichloropropene	ug/l	-	-	-	-	ND (4.2)
Ethylbenzene	ug/l	700	-	-	-	ND (5.6)
2-Hexanone	ug/l	-	-	-	-	ND (40)
4-Methyl-2-pentanone	ug/l	1020	-	-	-	ND (20)
Methyl bromide	ug/l	7	-	-	-	ND (11)
Methyl chloride	ug/l	127	-	-	-	ND (11)
Methylene chloride	ug/l	5	-	-	-	ND (40)
Methyl ethyl ketone	ug/l	4920	-	-	-	ND (30)
Styrene	ug/l	100	-	-	-	ND (4.7)
1,1,1-Trichloroethane	ug/l	200	-	-	-	ND (6.7)
1,1,2,2-Tetrachloroethane	ug/l	0.694	-	-	-	ND (5.5)
1,1,2-Trichloroethane	ug/l	5	-	-	-	ND (6.3)



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Tetrachloroethylene	ug/l	5	-	-	-	ND (5.1)
Toluene	ug/l	1000	-	-	-	ND (4.0)
Trichloroethylene	ug/l	5	-	-	-	ND (6.0)
Vinyl chloride	ug/l	2	-	-	-	ND (6.5)
Xylene (total)	ug/l	10000	-	-	-	ND (13)
GC/MS Semi-volatiles (SW846 8270D)						
Benzoic Acid	ug/l	-	-	-	ND (9.4)	ND (9.4)
2-Chlorophenol	ug/l	-	-	-	-	ND (0.49)
4-Chloro-3-methyl phenol	ug/l	-	-	-	-	ND (0.47)
2,4-Dichlorophenol	ug/l	41.2	-	-	-	ND (0.54)
2,4-Dimethylphenol	ug/l	292	-	-	-	ND (0.47)
2,4-Dinitrophenol	ug/l	31	-	-	-	ND (5.1)
4,6-Dinitro-o-cresol	ug/l	-	-	-	-	ND (1.9)
2-Methylphenol	ug/l	744	-	-	-	ND (0.47)
3&4-Methylphenol	ug/l	-	-	-	1.9 J	ND (1.1)
2-Nitrophenol	ug/l	-	ND (0.56)	-	-	ND (0.56)
4-Nitrophenol	ug/l	-	-	-	-	ND (4.7)



Client Sample ID:		KS Tier 2 Risk Based Standards  Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Pentachlorophenol	ug/l	1	-	-	-	ND (4.7)
Phenol	ug/l	4560	-	-	-	ND (0.47)
2,4,5-Trichlorophenol	ug/l	1260	-	-	-	ND (0.92)
2,4,6-Trichlorophenol	ug/l	12.7	-	-	-	ND (0.52)
Acenaphthene	ug/l	253	-	-	-	ND (0.47)
Acenaphthylene	ug/l	-	-	-	ND (0.47)	ND (0.47)
Anthracene	ug/l	1150	-	-	-	ND (0.58)
Benzo(a)anthracene	ug/l	0.223	-	-	-	ND (0.61)
Benzo(a)pyrene	ug/l	0.2	-	-	-	ND (0.62)
Benzo(b)fluoranthene	ug/l	0.16	-	-	-	ND (0.67)
Benzo(g,h,i)perylene	ug/l	-	-	-	-	ND (0.76)
Benzo(k)fluoranthene	ug/l	1.62	-	-	-	ND (0.48)
4-Bromophenyl phenyl ether	ug/l	-	-	-	-	ND (0.63)
Butyl benzyl phthalate	ug/l	333	-	-	-	ND (0.77)
Benzyl Alcohol	ug/l	-	ND (0.94)	-	21.4	ND (0.94)
2-Chloronaphthalene	ug/l	344	-	-	-	ND (0.52)
4-Chloroaniline	ug/l	-	-	-	-	ND (0.47)
Carbazole	ug/l	28.7	-	-	-	ND (0.58)

Client Sample ID:		KS Tier 2 Risk Based Standards  Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Chrysene	ug/l	22.3	-	-	-	ND (0.68)
bis(2-Chloroethoxy)methane	ug/l	-	-	-	-	ND (0.52)
bis(2-Chloroethyl)ether	ug/l	0.124	-	-	-	ND (0.65)
bis(2-Chloroisopropyl)ether	ug/l	-	-	-	-	ND (0.55)
4-Chlorophenyl phenyl ether	ug/l	-	-	-	-	ND (0.51)
1,2-Dichlorobenzene	ug/l	600	-	-	-	ND (0.47)
1,3-Dichlorobenzene	ug/l	-	-	-	-	ND (0.47)
1,4-Dichlorobenzene	ug/l	75	-	-	-	ND (0.47)
2,4-Dinitrotoluene	ug/l	2.67	-	-	-	ND (0.54)
2,6-Dinitrotoluene	ug/l	15.4	-	-	-	ND (0.59)
3,3'-Dichlorobenzidine	ug/l	-	-	-	-	ND (0.85)
Dibenzo(a,h)anthracene	ug/l	0.00805	-	-	-	ND (0.77)
Dibenzofuran	ug/l	4.13	-	-	-	ND (0.50)
Di-n-butyl phthalate	ug/l	1350	-	-	-	ND (0.94)
Di-n-octyl phthalate	ug/l	18.4	-	-	-	ND (0.94)
Diethyl phthalate	ug/l	12200	-	-	-	ND (0.94)
Dimethyl phthalate	ug/l	155000	-	-	-	ND (0.59)
bis(2-Ethylhexyl)phthalate	ug/l	6	10.2	-	53.4	ND (1.5)



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Fluoranthene	ug/l	255	-	-	-	ND (0.66)
Fluorene	ug/l	162	-	-	-	ND (0.47)
Hexachlorobenzene	ug/l	1	-	-	-	ND (0.62)
Hexachlorobutadiene	ug/l	6.32	-	-	-	ND (0.47)
Hexachlorocyclopentadiene	ug/l	50	-	-	-	ND (0.94)
Hexachloroethane	ug/l	13.1	-	-	-	ND (0.47)
Indeno(1,2,3-cd)pyrene	ug/l	0.117	-	-	-	ND (0.59)
Isophorone	ug/l	-	-	-	-	ND (0.47)
1-Methylnaphthalene	ug/l	-	-	-	ND (0.47)	-
2-Methylnaphthalene	ug/l	16.7	-	-	-	ND (0.50)
2-Nitroaniline	ug/l	-	-	-	-	ND (1.1)
3-Nitroaniline	ug/l	-	-	-	-	ND (0.57)
4-Nitroaniline	ug/l	-	-	-	-	ND (0.72)
Naphthalene	ug/l	1.11	-	-	0.61 J	ND (0.47)
Nitrobenzene	ug/l	1.01	-	-	-	ND (0.47)
N-Nitroso-di-n-propylamine	ug/l	-	-	-	-	ND (0.47)
N-Nitrosodiphenylamine	ug/l	-	-	-	-	ND (0.50)
Phenanthrene	ug/l	-	-	-	ND (0.56)	ND (0.56)

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Pyrene	ug/l	202	-	-	-	ND (0.77)
1,2,4-Trichlorobenzene	ug/l	70	-	-	-	ND (0.47)
<b>GC Semi-volatiles (SW846 8082A)</b>						
Aroclor 1016	ug/l	-	-	-	-	ND (2.0)
Aroclor 1221	ug/l	-	-	-	-	ND (2.5)
Aroclor 1232	ug/l	-	-	-	-	ND (2.5)
Aroclor 1242	ug/l	-	-	-	-	ND (2.0)
Aroclor 1248	ug/l	-	-	-	-	ND (2.0)
Aroclor 1254	ug/l	-	-	-	-	ND (2.0)
Aroclor 1260	ug/l	-	-	0.20 J	-	ND (2.0)
<b>Metals Analysis</b>						
Antimony	ug/l	6	<6.0	-	<6.0	10.5
Arsenic	ug/l	10	<10	-	-	<10
Cadmium	ug/l	5	5	-	<5.0	5.2
Chromium	ug/l	100	35.8	-	66.7	194
Cobalt	ug/l	4.68	<50	-	<50	<50



Client Sample ID:		KS Tier 2 Risk Based Standards  Residential GW (KDHE 3/2014)	BLD D RM 2	BLD D RM 2	BLD D RM 5B	DUP-4
Lab Sample ID:			FA12636-1	FA12636-1A	FA12636-4	FA12636-5
Date Sampled:			2/19/2014	2/24/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water
Iron	ug/l	-	2570	-	2330	4600
Lead	ug/l	15	117	-	85.3	136
Manganese	ug/l	50	60.7	-	51.9	93.3
Mercury	ug/l	2	0.93	-	0.86	1.8
Potassium	ug/l	-	<10000	-	<10000	21200
Sodium	ug/l	-	90100	-	122000	1980000
Strontium	ug/l	-	222	-	254	343
Titanium	ug/l	-	50.4	-	52.5	77.8

**Footnotes:**

<sup>a</sup> Sample was treated with an anti-foaming agent.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.



Accutest Laboratories Southeast, Inc.												
Job Number:	FA12620											
Account:	ISI Environmental Services											
Project:	Clean Harbors; Wichita, KS											
Project Number:												
										Legend:	Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B	
Lab Sample ID:			Residential	FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:			GW (KDHE	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:			03/2014)	Water	Water	Water	Water	Water	Water	Water	Water	Water
GC/MS Semi-volatiles (SW846 8270D)												
Benzoic Acid	ug/l	-	ND (9.5)	ND (9.5)	28.3 J	26.1 J	ND (9.5)	ND (9.4)	ND (9.4)	ND (9.4)	ND (9.5)	
2-Chlorophenol	ug/l	-	-	-	ND (0.49)	2.4 J	-	ND (0.49)	ND (0.49)	0.99 J	-	
4-Chloro-3-methyl phenol	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-	
2,4-Dichlorophenol	ug/l	41.2	-	-	ND (0.55)	-	-	ND (0.54)	ND (0.54)	ND (0.54)	-	
2,4-Dimethylphenol	ug/l	292	-	-	0.77 J	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-	
2,4-Dinitrophenol	ug/l	31	-	-	ND (5.2)	-	-	ND (5.1)	ND (5.1)	ND (5.1)	-	
4,6-Dinitro-o-cresol	ug/l	-	-	-	ND (1.9)	-	-	ND (1.9)	ND (1.9)	ND (1.9)	-	
2-Methylphenol	ug/l	744	-	-	ND (0.48)	-	-	1.0 J	0.65 J	0.67 J	-	
3&4-Methylphenol	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	2.6 J	ND (1.1)	1.1 J	ND (1.1)	1.2 J	ND (1.1)	
2-Nitrophenol	ug/l	-	ND (0.57)	ND (0.57)	ND (0.57)	1.0 J	ND (0.57)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.57)	
4-Nitrophenol	ug/l	-	ND (4.8)	ND (4.8)	ND (4.8)	-	ND (4.8)	ND (4.7)	ND (4.7)	ND (4.7)	ND (4.8)	
Pentachlorophenol	ug/l	1	-	-	ND (4.8)	-	-	ND (4.7)	ND (4.7)	ND (4.7)	-	
Phenol	ug/l	4560	-	-	0.90 J	-	-	2.9 J	1.3 J	8.7	-	
2,4,5-Trichlorophenol	ug/l	1260	-	-	ND (0.93)	-	-	ND (0.92)	ND (0.92)	ND (0.92)	-	
2,4,6-Trichlorophenol	ug/l	12.7	-	-	ND (0.53)	-	-	ND (0.52)	ND (0.52)	ND (0.52)	-	
Acenaphthene	ug/l	253	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-	
Acenaphthylene	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-	
Anthracene	ug/l	1150	-	-	ND (0.59)	-	-	ND (0.58)	ND (0.58)	ND (0.58)	-	
Benzo(a)anthracene	ug/l	0.223	-	-	ND (0.61)	-	-	ND (0.61)	ND (0.61)	ND (0.61)	-	
Benzo(a)pyrene	ug/l	0.2	-	-	ND (0.62)	-	-	ND (0.62)	ND (0.62)	ND (0.62)	-	
Benzo(b)fluoranthene	ug/l	0.16	-	-	ND (0.68)	-	-	ND (0.67)	ND (0.67)	ND (0.67)	-	
Benzo(g,h,i)perylene	ug/l	-	-	-	ND (0.77)	-	-	ND (0.76)	ND (0.76)	ND (0.76)	-	
Benzo(k)fluoranthene	ug/l	1.62	-	-	ND (0.49)	-	-	ND (0.48)	ND (0.48)	ND (0.48)	-	
4-Bromophenyl phenyl ether	ug/l	-	-	-	ND (0.64)	-	-	ND (0.63)	ND (0.63)	ND (0.63)	-	
Butyl benzyl phthalate	ug/l	333	-	-	5.4	-	-	ND (0.77)	ND (0.77)	2.8 J	-	



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B
Lab Sample ID:			FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:			2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water
Benzyl Alcohol	ug/l	-	23.7	9.4	1.1 J	1.9 J	ND (0.95)	15.9	1.6 J	53.4	11.8
2-Chloronaphthalene	ug/l	344	-	-	ND (0.53)	-	-	ND (0.52)	ND (0.52)	ND (0.52)	-
4-Chloroaniline	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Carbazole	ug/l	28.7	-	-	ND (0.59)	-	-	ND (0.58)	ND (0.58)	ND (0.58)	-
Chrysene	ug/l	22.3	-	-	ND (0.69)	-	-	ND (0.68)	ND (0.68)	ND (0.68)	-
bis(2-Chloroethoxy)methane	ug/l	-	-	-	ND (0.52)	-	-	ND (0.52)	ND (0.52)	ND (0.52)	-
bis(2-Chloroethyl)ether	ug/l	0.124	-	-	ND (0.66)	-	-	ND (0.65)	ND (0.65)	ND (0.65)	-
bis(2-Chloroisopropyl)ether	ug/l	-	-	-	ND (0.55)	-	-	ND (0.55)	ND (0.55)	ND (0.55)	-
4-Chlorophenyl phenyl ether	ug/l	-	-	-	ND (0.51)	-	-	ND (0.51)	ND (0.51)	ND (0.51)	-
1,2-Dichlorobenzene	ug/l	600	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
1,3-Dichlorobenzene	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
1,4-Dichlorobenzene	ug/l	75	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
2,4-Dinitrotoluene	ug/l	2.67	-	-	ND (0.54)	-	-	ND (0.54)	ND (0.54)	ND (0.54)	-
2,6-Dinitrotoluene	ug/l	15.4	-	-	ND (0.60)	-	-	ND (0.59)	ND (0.59)	ND (0.59)	-
3,3'-Dichlorobenzidine	ug/l	-	-	-	ND (0.86)	-	-	ND (0.85)	ND (0.85)	ND (0.85)	-
Dibenzo(a,h)anthracene	ug/l	0.00805	-	-	ND (0.77)	-	-	ND (0.77)	ND (0.77)	ND (0.77)	-
Dibenzofuran	ug/l	4.13	-	-	ND (0.51)	-	-	ND (0.50)	ND (0.50)	ND (0.50)	-
Di-n-butyl phthalate	ug/l	1350	-	-	0.97 J	-	-	ND (0.94)	ND (0.94)	ND (0.94)	-
Di-n-octyl phthalate	ug/l	18.4	-	-	ND (0.95)	-	-	1.7 J	ND (0.94)	2.1 J	-
Diethyl phthalate	ug/l	12200	-	-	ND (0.95)	-	-	ND (0.94)	ND (0.94)	ND (0.94)	-
Dimethyl phthalate	ug/l	155000	-	-	1.0 J	-	-	ND (0.59)	ND (0.59)	ND (0.59)	-
bis(2-Ethylhexyl)phthalate	ug/l	6	29.9	18.6	91.9	37.3	3.2 J	218	6.3	110	54.8
Fluoranthene	ug/l	255	-	-	ND (0.67)	-	-	ND (0.66)	ND (0.66)	ND (0.66)	-
Fluorene	ug/l	162	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorobenzene	ug/l	1	-	-	ND (0.63)	-	-	ND (0.62)	ND (0.62)	ND (0.62)	-
Hexachlorobutadiene	ug/l	6.32	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorocyclopentadiene	ug/l	50	-	-	ND (0.95)	-	-	ND (0.94)	ND (0.94)	ND (0.94)	-
Hexachloroethane	ug/l	13.1	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Indeno(1,2,3-cd)pyrene	ug/l	0.117	-	-	ND (0.60)	-	-	ND (0.59)	ND (0.59)	ND (0.59)	-
Isophorone	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
1-Methylnaphthalene	ug/l	-	-	-	-	-	ND (0.48)	-	-	-	-
2-Methylnaphthalene	ug/l	16.7	-	-	ND (0.51)	-	-	ND (0.50)	ND (0.50)	ND (0.50)	-
2-Nitroaniline	ug/l	-	-	-	ND (1.1)	-	-	ND (1.1)	ND (1.1)	ND (1.1)	-
3-Nitroaniline	ug/l	-	-	-	ND (0.58)	-	-	ND (0.57)	ND (0.57)	ND (0.57)	-
4-Nitroaniline	ug/l	-	-	-	ND (0.72)	-	-	ND (0.72)	ND (0.72)	ND (0.72)	-
Naphthalene	ug/l	1.11	-	-	ND (0.48)	-	ND (0.48)	0.54 J	0.84 J	ND (0.47)	-



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B
Lab Sample ID:			FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:			2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water
Nitrobenzene	ug/l	1.01	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitroso-di-n-propylamine	ug/l	-	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitrosodiphenylamine	ug/l	-	-	-	ND (0.51)	-	-	ND (0.50)	ND (0.50)	ND (0.50)	-
Phenanthrene	ug/l	-	-	-	ND (0.57)	-	ND (0.57)	ND (0.56)	ND (0.56)	0.65 J	-
Pyrene	ug/l	202	-	-	ND (0.78)	-	-	ND (0.77)	ND (0.77)	ND (0.77)	-
1,2,4-Trichlorobenzene	ug/l	70	-	-	ND (0.48)	-	-	ND (0.47)	ND (0.47)	ND (0.47)	-
GC Semi-volatiles (SW846 8081B)											
alpha-Chlordane	ug/l	-	ND (0.0048)	ND (0.0049)	-	-	-	-	-	-	ND (0.0048)
gamma-Chlordane	ug/l	-	ND (0.0048)	ND (0.0049)	-	-	-	-	-	-	ND (0.0048)
GC Semi-volatiles (SW846 8082A)											
Aroclor 1016	ug/l	-	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (2.0)	-	-	ND (0.19)	ND (0.19)
Aroclor 1221	ug/l	-	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)	ND (2.5)	-	-	ND (0.24)	ND (0.24)
Aroclor 1232	ug/l	-	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)	ND (2.5)	-	-	ND (0.24)	ND (0.24)
Aroclor 1242	ug/l	-	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (2.0)	-	-	ND (0.19)	ND (0.19)
Aroclor 1248	ug/l	-	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (2.0)	-	-	ND (0.19)	ND (0.19)
Aroclor 1254	ug/l	-	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (2.0)	-	-	ND (0.19)	ND (0.19)
Aroclor 1260	ug/l	-	0.73	0.32 J	2.1	ND (0.19)	ND (2.0)	-	-	0.24 J	ND (0.19)
Metals Analysis											
Antimony	ug/l	6	7.2	<6.0	<6.0	10.1	7.3	<6.0	<6.0	-	<6.0
Arsenic	ug/l	10	<10	<10	<10	-	<10	<10	<10	-	<10
Barium	ug/l	2000	<200	-	-	-	-	-	-	-	-
Cadmium	ug/l	5	7.4	<5.0	6.9	16.2	5.3	<5.0	<5.0	16.3	5.5
Chromium	ug/l	100	52.7	31.8	154	370	160	29.9	<10	-	53.6
Cobalt	ug/l	4.68	<50	<50	<50	<50	<50	<50	<50	-	<50
Copper	ug/l	1300	42.6	-	-	-	-	-	-	-	-
Iron	ug/l	-	4550	3970	3760	2260	3490	969	328	3860	3810
Lead	ug/l	15	215	124	421	753	124	41.9	13.7	226	171
Manganese	ug/l	50	174	185	104	218	82.4	26.4	<15	148	95.8
Mercury	ug/l	2	1.4	1	5.5	4.6	1.6	<0.50	<0.50	2	1
Potassium	ug/l	-	-	12800	13800	19800	23600	<10000	<10000	14600	<10000



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B
Lab Sample ID:		Residential	FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:		GW (KDHE 03/2014)	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water
Sodium	ug/l	-	124000	115000	107000	178000	2120000	109000	95100	164000	114000
Strontium	ug/l	-	287	300	285	280	328	224	203	274	226
Titanium	ug/l	-	337	83	77.6	48.1	68.9	12.8	<10	35.1	27.5
Vanadium	ug/l	-	<50	-	-	-	-	-	-	-	-
Zinc	ug/l	4670	830	-	-	-	-	-	-	-	-

Client Sample ID:		KS Tier 2 Risk Based Standards	TRIP BLANK								
Lab Sample ID:		Residential	FA12620-4								
Date Sampled:		GW (KDHE 10/2010)	2/19/2014								
Matrix:			Trip Blank Water								

#### GC/MS Volatiles (SW846 8260B)

Acetone	ug/l	11500	ND (11)								
Acrolein	ug/l	0.0415	ND (6.4)								
Acrylonitrile	ug/l	0.491	ND (2.0)								
Benzene	ug/l	5	ND (0.24)								
Bromobenzene	ug/l	-	ND (0.31)								
Bromochloromethane	ug/l	-	ND (0.38)								
Bromodichloromethane	ug/l	80	ND (0.26)								
Bromoform	ug/l	80	ND (0.38)								
n-Butylbenzene	ug/l	33.8	ND (0.30)								
sec-Butylbenzene	ug/l	30.5	ND (0.27)								
tert-Butylbenzene	ug/l	-	ND (0.29)								
Chlorobenzene	ug/l	100	ND (0.24)								
Chloroethane	ug/l	14000	ND (0.50)								
Chloroform	ug/l	80	ND (0.31)								
o-Chlorotoluene	ug/l	88.9	ND (0.23)								
p-Chlorotoluene	ug/l	-	ND (0.29)								
2-Chloroethyl vinyl ether	ug/l	-	ND (1.0) *								
Carbon disulfide	ug/l	716	ND (0.20)								
Carbon tetrachloride	ug/l	5	ND (0.40)								
1,1-Dichloroethane	ug/l	25	ND (0.26)								
1,1-Dichloroethylene	ug/l	7	ND (0.25)								



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B
Lab Sample ID:		Residential	FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:		GW (KDHE	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:		03/2014)	Water	Water	Water	Water	Water	Water	Water	Water	Water
1,1-Dichloropropene	ug/l	-	ND (0.28)								
1,2-Dibromo-3-chloropropane	ug/l	0.2	ND (0.78)								
1,2-Dibromoethane	ug/l	0.05	ND (0.24)								
1,2-Dichloroethane	ug/l	5	ND (0.24)								
1,2-Dichloropropane	ug/l	5	ND (0.36)								
1,3-Dichloropropane	ug/l	-	ND (0.34)								
2,2-Dichloropropane	ug/l	-	ND (0.33)								
Dibromochloromethane	ug/l	80	ND (0.36)								
Dichlorodifluoromethane	ug/l	366	ND (0.33)								
cis-1,2-Dichloroethylene	ug/l	70	ND (0.33)								
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)								
m-Dichlorobenzene	ug/l	-	ND (0.20)								
o-Dichlorobenzene	ug/l	600	ND (0.29)								
p-Dichlorobenzene	ug/l	75	ND (0.20)								
trans-1,2-Dichloroethylene	ug/l	100	ND (0.34)								
trans-1,3-Dichloropropene	ug/l	-	ND (0.21)								
Ethylbenzene	ug/l	700	ND (0.28)								
2-Hexanone	ug/l	-	ND (2.0)								
Hexachlorobutadiene	ug/l	6.32	ND (0.50)								
Isopropylbenzene	ug/l	451	ND (0.20)								
p-Isopropyltoluene	ug/l	-	ND (0.24)								
4-Methyl-2-pentanone	ug/l	1020	ND (1.0)								
Methyl bromide	ug/l	7	ND (0.54)								
Methyl chloride	ug/l	127	ND (0.53)								
Methylene bromide	ug/l	-	ND (0.29)								
Methylene chloride	ug/l	5	ND (2.0)								
Methyl ethyl ketone	ug/l	4920	ND (1.5)								
Methyl Tert Butyl Ether	ug/l	133	ND (0.20)								
Naphthalene	ug/l	1.11	ND (1.0)								
n-Propylbenzene	ug/l	660	ND (0.24)								
Styrene	ug/l	100	ND (0.23)								
1,1,1,2-Tetrachloroethane	ug/l	5.35	ND (0.25)								
1,1,1-Trichloroethane	ug/l	200	ND (0.34)								
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (0.27)								
1,1,2-Trichloroethane	ug/l	5	ND (0.32)								
1,2,3-Trichlorobenzene	ug/l	-	ND (0.50)								



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D RM 1A	BLD D RM 1B	BLD D RM 3	BLD D RM 4	BLD D RM 5A	BLD D RM 5C	BLD D RM 5D	BLD D RM 6A	BLD D RM 6B
Lab Sample ID:		Residential	FA12620-1	FA12620-2	FA12620-9	FA12620-10	FA12620-3	FA12620-5	FA12620-6	FA12620-7	FA12620-8
Date Sampled:		GW (KDHE 03/2014)	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water
1,2,3-Trichloropropane	ug/l	0.00468	ND (0.57)								
1,2,4-Trichlorobenzene	ug/l	70	ND (0.50)								
1,2,4-Trimethylbenzene	ug/l	8.44	ND (0.24)								
1,3,5-Trimethylbenzene	ug/l	44	ND (0.20)								
Tetrachloroethylene	ug/l	5	ND (0.26)								
Toluene	ug/l	1000	0.24 J								
Trichloroethylene	ug/l	5	ND (0.30)								
Trichlorofluoromethane	ug/l	1090	ND (0.50)								
Vinyl chloride	ug/l	2	ND (0.33)								
Vinyl Acetate	ug/l	406	ND (2.0) <sup>a</sup>								
m,p-Xylene	ug/l	10000	ND (0.48)								
o-Xylene	ug/l	10000	ND (0.20)								

**Footnotes:**

<sup>a</sup> Associated BS recovery outside control limits.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

<b>Accutest Laboratories</b>			
Job Number:	FA12103R		
Account:	ISI Environmental Services		
Project:	Clean Harbors; Wichita, KS		
Project Number:			
<b>Legend:</b>		Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D RM 5A
Lab Sample ID:			FA12103-8FR
Date Sampled:			1/30/2014
Matrix:			Water Filtered
<b>Metals Analysis</b>			
Chromium	ug/l	100	158
Cobalt	ug/l	4.68	76
Lead	ug/l	15	10.4
<b>Footnotes:</b>			
<sup>a</sup> Associated BS recovery outside control limits.			
<sup>b</sup> Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.			
<sup>c</sup> Elevated reporting limit(s) due to matrix interference.			
Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation.			
It is the responsibility of the user to verify these limits before using or reporting any data.			



# Accutest Laboratories Southeast, Inc.

Job Number:	FA12080
Account:	ISI Environmental Services
Project:	Clean Harbors; Wichita, KS
Project Number:	SUMMIT - FA12080

Legend:			Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	Bld D Rms 1A & 1B <sup>(1)</sup>	Bld D Rms 5A-5D <sup>(2)</sup>
Lab Sample ID:			6X	9X
Date Sampled:			1/30/2014	1/30/2014
Matrix:			Water	Water

## DIOXIN / FURANS RESULTS

2378-TCDF	pg/L	-	70	51.0
12378-PeCDF	pg/L	-	7.9	8.0
23478-PeCDF	pg/L	-	14	9.8
123478-HxCDF	pg/L	-	45	18
123678-HxCDF	pg/L	-	18	13
234678-HxCDF	pg/L	-	16	11
123789-HxCDF	pg/L	-	ND(5.0)	7.6
1234678-HpCDF	pg/L	-	350	160
1234789-HpCDF	pg/L	-	38	ND(5.0)
OCDF	pg/L	4930000	1100	530
2378-TCDD	pg/L	30	3.3	ND(1.0)
12378-PeCDD	pg/L	-	8.6	ND(5.0)
123478-HxCDD	pg/L	-	20	16
123678-HxCDD	pg/L	-	60	32
123789HxCDD	pg/L	-	23	12

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	Bld D Rms 1A & 1B <sup>(1)</sup>	Bld D Rms 5A-5D <sup>(2)</sup>
Lab Sample ID:			6X	9X
Date Sampled:			1/30/2014	1/30/2014
Matrix:			Water	Water
1234678-HpCDD	pg/L	-	3200	1300
OCDD	pg/L	-	39000	17000

Notes:

(1) - Sample was a composite of Rinse Water from Building D - Rooms (RM) 1A and 1B.

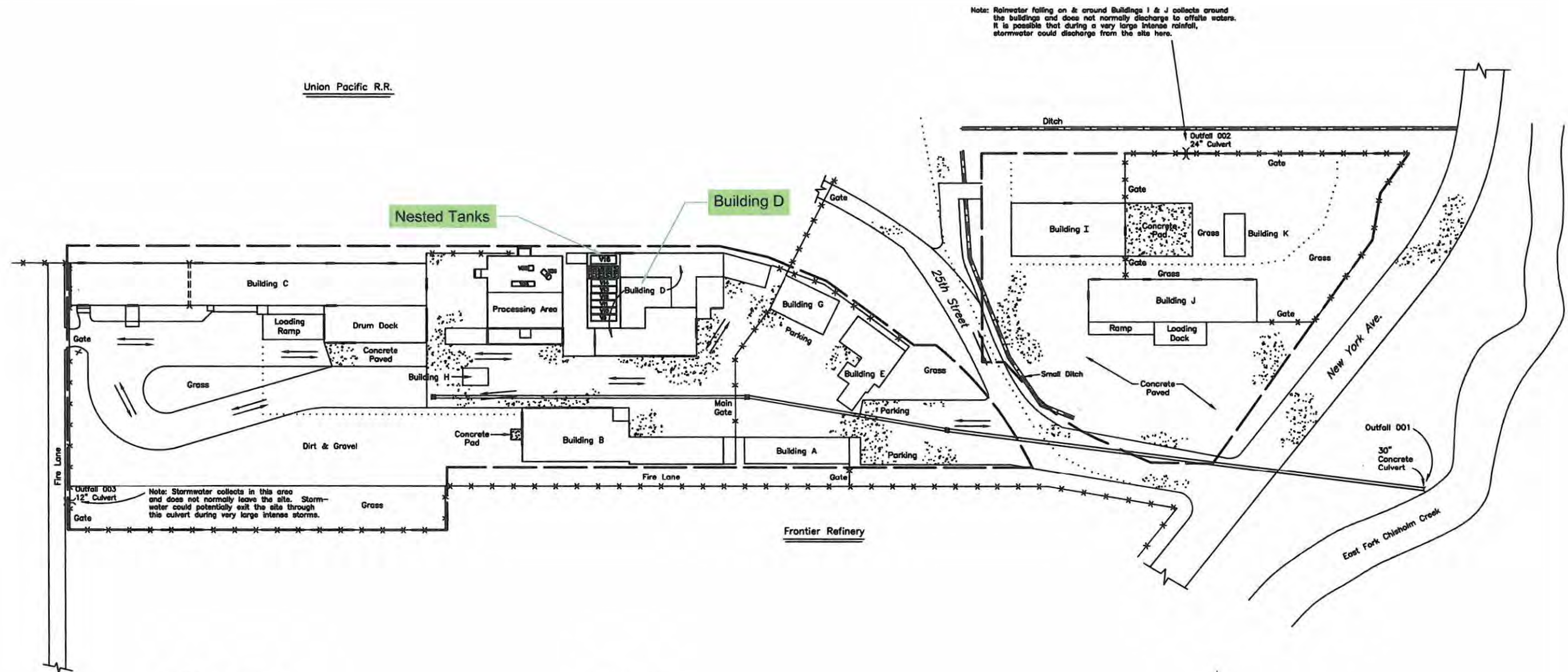
(2) - Sample was a composite of Rinse Water from Building D - Rooms (RM) 5A, 5B, 5C, and 5D.



**CLEAN HARBORS, WICHITA, KS**  
**Building D Nested Tanks - Analytical Results**

Tab		Description and Comments
Building D Nested Tanks	Contents	This listing of the Excel Worksheet Contents.
	Site Map	Drawing Showing Locations of Structures Sampled at the Facility.
	Bld D NT Decon Summary	Summary of Decontamination and rinsate sampling events.
	Bld D NT Ext Figure	Drawing of Nested Tanks Sampling, in Building D, External Rinse Samples of the NT.
	Bld D NT Ext Table	Table of Nested Tanks in Bld D, External Rinse Samples, Analytical Results w/ KDHE Tier II RSK Levels.
	Bld D NT Int Figure	Drawing of Nested Tanks Sampling, in Building D, Internal Rinse Samples of the NT.
	Bld D NT Int Table	Table of Nested Tanks in Bld D, Internal Rinse Samples, Analytical Results w/ KDHE Tier II RSK Levels.
	Bld D NT Int Resample Table	Table of Nested Tanks in Bld D, Internal Rinse Resamples, Analytical Results w/KDHE Tier II RSK Levels.
	Bld D NT Int Filtered Results	Table of Nested Tanks in Bld D, Laboratory Filtered Internal Rinse Samples, Analytical Results w/ KDHE Tier II RSK Levels.
	Bld D NT Int D&F	Table of Nested Tanks in Bld D, Internal Rinse Samples, Dioxin/Furan Analytical Results w/ KDHE Tier II RSK Levels.

Notes: Bld = Building, NT = Nested Tanks, Ext = External, Int = Internal, D&F = Dioxin & Furan



#### Building Legend

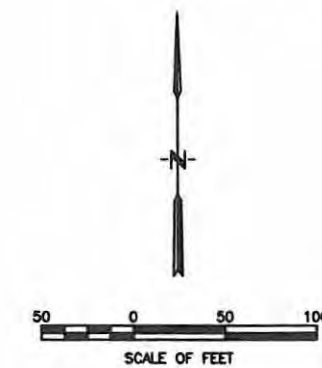
Building A	Laboratory/Administration
Building C	Hazardous Waste Management Building
Building E	Administration
Building G	Personnel Decon/Break Room
Building H	Operations Office
Building I	Hazardous Waste Management Building
Processing Area	Hazardous Waste Management Area
Drum Dock	Hazardous Waste Management Area

#### Legend:

+++++	Railroad Tracks
-*-*-	Fence
---	Property Line
=====	Loading and Unloading Area
=====	Secondary Containment Berm or Wall
[Pattern]	Pavement
.....	Drainage Boundary
[Symbol]	Storm Drain Catch Basins
=====	Underground Storm Sewer Line
==>==	Truck Routes

#### Notes:

- TANKS & MISCELLANEOUS UNIT LOCATIONS SUBJECT TO CLOSURE ARE IDENTIFIED IN THE PROCESSING AREA AND BUILDING D.
- CONTAINER MANAGEMENT UNITS SUBJECT TO CLOSURE INCLUDE:  
BUILDING B  
BUILDING D  
BUILDING J



CLEAN HARBORS  
PROJECT NAME



WICHITA FACILITY  
SHEET TITLE

B. GERBER	B. WEAST	S. KLAUS
PROJECT MGR.	DRAWN BY:	CHECKED BY:
8-25-2014	1401030	1 / 1
DATE	JOB NO.	SHEET/OF



## Clean Harbors Wichita

### Building D Nested Tanks Decontamination Summary

[illegible]

Unit	Comments	Inventory	Decontamination Complete (date)	Rinsate Samples Collected (PE Required) (date)	Internal Review	Follow up Actions	Submitted to State/EPA (date)	Determination	Agency Determination Via? (phone, email etc.)	Date
Bld D NT 15C Int										
Bld D NT 15D Int		Piping Associated with Nested Tanks.	1/27/2014 to 1/31/2014	1/31/2014	Organic exceedances	Repeat Decon				
		None	2/13/2014 to 2/24/2014	2/24/2014	Organics pass	submit results				
Bld D NT 16 Int		Piping Associated with Nested Tanks.	1/27/2014 to 1/31/2014	1/31/2014	Organic exceedances	Repeat Decon				
		None	2/13/2014 to 2/24/2014	2/24/2014	Organics pass	submit results				

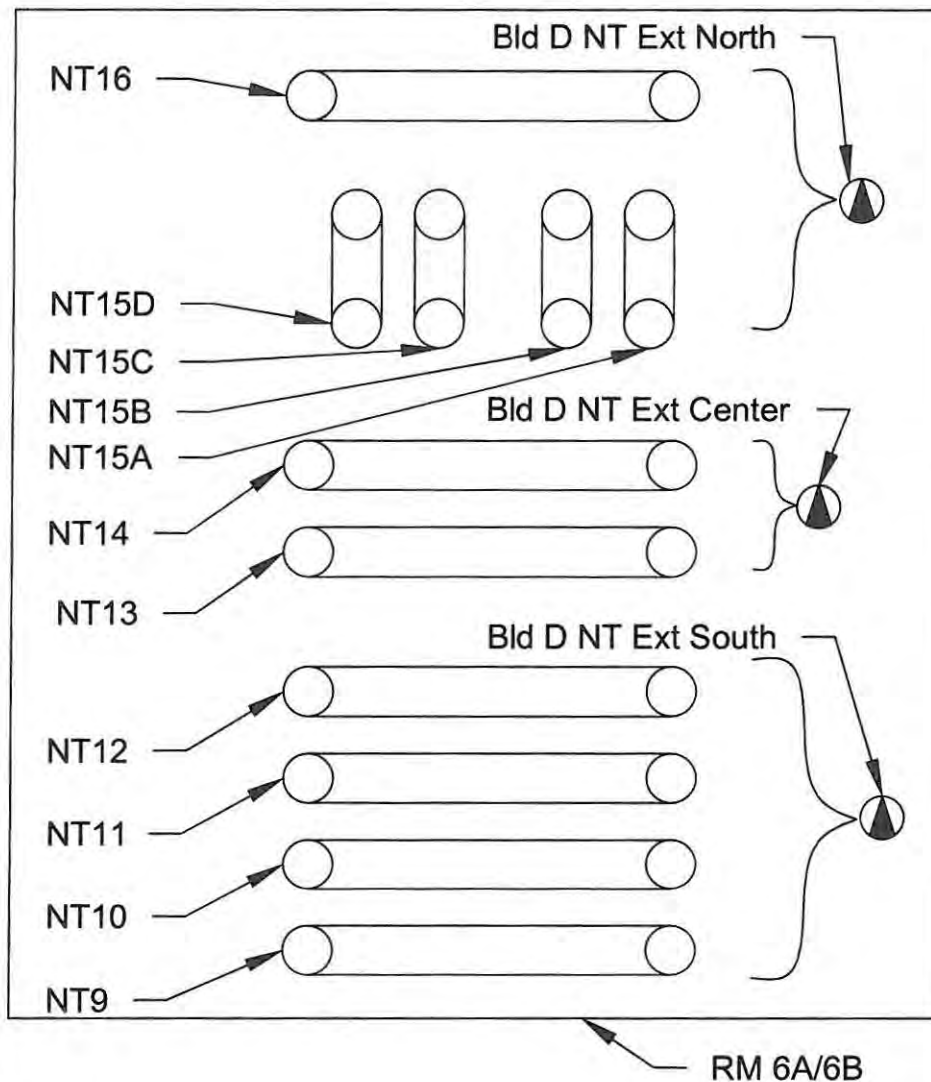
Inventory - List all items removed from unit and provide reference to location where they were moved (e.g. manifest number, tank number for rinse water, etc.). Use separate sheet if necessary.

LM - Lone Mountain.





# BUILDING D



## LEGEND

NT9 TANK IDENTIFICATION NUMBER

NT NESTED TANK



COMPOSITE SAMPLE

The composite sample was collected from water that came in contact with the exterior of the tanks.

NOT TO SCALE

Note: Tanks are located in the rafters of Room 6A/6B in Building D

CLEAN HARBORS			
PROJECT NAME			
BUILDING D:			
NESTED TANK EXTERIOR SAMPLES			
SHEET TITLE			
B. GERBER	B. WEAST	S. CINAR	
PROJECT MGR.	DRAWN BY:	CHECKED BY:	
3-5-2014	1401030	1 / 1	
DATE	JOB NO.	SHEET OF	

**Accutest Laboratories Southeast, Inc.**

Job Number:	FA12102
Account:	ISI Environmental Services
Project:	Clean Harbors; Wichita, KS
Project Number:	

				Legend:	Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water

**GC/MS Volatiles (SW846 8260B)**

Acetone	ug/l	11500	ND (11)	ND (11)	ND (11)	ND (11)
Acrolein	ug/l	0.0415	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)
Acrylonitrile	ug/l	0.491	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Benzene	ug/l	5	1.1	1.3	0.29 J	ND (0.24)
Bromobenzene	ug/l	-	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Bromochloromethane	ug/l	-	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
Bromodichloromethane	ug/l	80	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Bromoform	ug/l	80	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
n-Butylbenzene	ug/l	169	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
sec-Butylbenzene	ug/l	305	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
tert-Butylbenzene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Chlorobenzene	ug/l	100	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Chloroethane	ug/l	14000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Chloroform	ug/l	80	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
o-Chlorotoluene	ug/l	88.9	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
p-Chlorotoluene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
2-Chloroethyl vinyl ether	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Carbon disulfide	ug/l	716	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Carbon tetrachloride	ug/l	5	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
1,1-Dichloroethane	ug/l	25	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
1,1-Dichloroethylene	ug/l	7	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1-Dichloropropene	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,2-Dibromo-3-chloropropane	ug/l	0.2	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
1,2-Dibromoethane	ug/l	0.05	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2-Dichloroethane	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2-Dichloropropane	ug/l	5	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,3-Dichloropropane	ug/l	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
2,2-Dichloropropane	ug/l	-	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Dibromochloromethane	ug/l	80	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
Dichlorodifluoromethane	ug/l	366	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
cis-1,2-Dichloroethylene	ug/l	70	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
m-Dichlorobenzene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water
o-Dichlorobenzene	ug/l	600	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
p-Dichlorobenzene	ug/l	75	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
trans-1,2-Dichloroethylene	ug/l	100	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
trans-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Ethylbenzene	ug/l	700	0.52 J	0.45 J	ND (0.28)	ND (0.28)
2-Hexanone	ug/l	-	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Hexachlorobutadiene	ug/l	6.32	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Isopropylbenzene	ug/l	451	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
p-Isopropyltoluene	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
4-Methyl-2-pentanone	ug/l	1020	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Methyl bromide	ug/l	7.02	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Methyl chloride	ug/l	127	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Methylene bromide	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Methylene chloride	ug/l	5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Methyl ethyl ketone	ug/l	4920	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
Methyl Tert Butyl Ether	ug/l	133	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Naphthalene	ug/l	1.11	1.4 J	1.3 J	ND (1.0)	ND (1.0)
n-Propylbenzene	ug/l	660	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Styrene	ug/l	100	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	5.35	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	200	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,1,2-Trichloroethane	ug/l	5	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
1,2,3-Trichlorobenzene	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,3-Trichloropropane	ug/l	0.00468	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
1,2,4-Trichlorobenzene	ug/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trimethylbenzene	ug/l	8.44	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,3,5-Trimethylbenzene	ug/l	44	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Tetrachloroethylene	ug/l	5	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Toluene	ug/l	1000	2.4	2.1	0.62 J	ND (0.20)
Trichloroethylene	ug/l	5	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Trichlorofluoromethane	ug/l	1090	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Vinyl chloride	ug/l	2	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Vinyl Acetate	ug/l	406	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
m,p-Xylene	ug/l	10000	1.1 J	0.74 J	ND (0.48)	ND (0.48)
o-Xylene	ug/l	10000	0.71 J	0.47 J	0.22 J	ND (0.20)

**GC/MS Semi-volatiles (SW846 8270D)**

Benzoic Acid	ug/l	-	ND (9.4)	ND (9.4)	63.4	-
2-Chlorophenol	ug/l	-	ND (0.49)	0.59 J	4.8	-
4-Chloro-3-methyl phenol	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
2,4-Dichlorophenol	ug/l	41.2	ND (0.54)	ND (0.54)	ND (0.54)	-
2,4-Dimethylphenol	ug/l	292	0.53 J	0.48 J	ND (0.47)	-



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water
2,4-Dinitrophenol	ug/l	31	ND (5.1)	ND (5.1)	ND (5.1)	-
4,6-Dinitro-o-cresol	ug/l	-	ND (1.9)	ND (1.9)	ND (1.9)	-
2-Methylphenol	ug/l	744	0.85 J	1.0 J	ND (0.47)	-
3&4-Methylphenol	ug/l	-	1.4 J	1.5 J	4.0 J	-
2-Nitrophenol	ug/l	-	ND (0.56)	ND (0.56)	ND (0.56)	-
4-Nitrophenol	ug/l	-	ND (4.7)	ND (4.7)	ND (4.7)	-
Pentachlorophenol	ug/l	1	ND (4.7)	ND (4.7)	ND (4.7)	-
Phenol	ug/l	4560	14.4	6.5	251	-
2,4,5-Trichlorophenol	ug/l	1260	ND (0.92)	ND (0.92)	ND (0.92)	-
2,4,6-Trichlorophenol	ug/l	12.7	ND (0.52)	ND (0.52)	ND (0.52)	-
Acenaphthene	ug/l	253	ND (0.47)	ND (0.47)	ND (0.47)	-
Acenaphthylene	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Aniline	ug/l	-	ND (0.94)	ND (0.94)	ND (0.94)	-
Anthracene	ug/l	1150	ND (0.58)	ND (0.58)	ND (0.58)	-
Benzidine	ug/l	0.00367	ND (4.7)	ND (4.7)	ND (4.7)	-
Benzo(a)anthracene	ug/l	0.223	ND (0.61)	ND (0.61)	ND (0.61)	-
Benzo(a)pyrene	ug/l	0.2	ND (0.62)	ND (0.62)	ND (0.62)	-
Benzo(b)fluoranthene	ug/l	0.16	ND (0.67)	ND (0.67)	ND (0.67)	-
Benzo(g,h,i)perylene	ug/l	-	ND (0.76)	ND (0.76)	ND (0.76)	-
Benzo(k)fluoranthene	ug/l	1.62	ND (0.48)	ND (0.48)	ND (0.48)	-
4-Bromophenyl phenyl ether	ug/l	-	ND (0.63)	ND (0.63)	ND (0.63)	-
Butyl benzyl phthalate	ug/l	333	0.79 J	0.85 J	1.1 J	-
Benzyl Alcohol	ug/l	-	1.4 J	2.1 J	2.8 J	-
2-Chloronaphthalene	ug/l	344	ND (0.52)	ND (0.52)	ND (0.52)	-
4-Chloroaniline	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
Carbazole	ug/l	28.7	ND (0.58)	ND (0.58)	ND (0.58)	-
Chrysene	ug/l	22.3	ND (0.68)	ND (0.68)	ND (0.68)	-
bis(2-Chloroethoxy)methane	ug/l	-	ND (0.52)	ND (0.52)	ND (0.52)	-
bis(2-Chloroethyl)ether	ug/l	0.124	ND (0.65)	ND (0.65)	ND (0.65)	-
bis(2-Chloroisopropyl)ether	ug/l	-	ND (0.55)	ND (0.55)	ND (0.55)	-
4-Chlorophenyl phenyl ether	ug/l	-	ND (0.51)	ND (0.51)	ND (0.51)	-
1,2-Dichlorobenzene	ug/l	600	ND (0.47)	ND (0.47)	ND (0.47)	-
1,2-Diphenylhydrazine	ug/l	-	ND (0.64)	ND (0.64)	ND (0.64)	-
1,3-Dichlorobenzene	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
1,4-Dichlorobenzene	ug/l	75	ND (0.47)	ND (0.47)	ND (0.47)	-
2,4-Dinitrotoluene	ug/l	2.67	ND (0.54)	ND (0.54)	ND (0.54)	-
2,6-Dinitrotoluene	ug/l	0.557	ND (0.59)	0.72 J	1.5 J	-
3,3'-Dichlorobenzidine	ug/l	-	ND (0.85)	ND (0.85)	ND (0.85)	-
Dibenzo(a,h)anthracene	ug/l	0.00805	ND (0.77)	ND (0.77)	ND (0.77)	-
Dibenzofuran	ug/l	4.13	ND (0.50)	ND (0.50)	ND (0.50)	-
Di-n-butyl phthalate	ug/l	1350	ND (0.94)	1.1 J	1.6 J	-
Di-n-octyl phthalate	ug/l	18.4	ND (0.94)	ND (0.94)	ND (0.94)	-
Diethyl phthalate	ug/l	12200	ND (0.94)	ND (0.94)	1.3 J	-
Dimethyl phthalate	ug/l	155000	ND (0.59)	ND (0.59)	ND (0.59)	-



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water
bis(2-Ethylhexyl)phthalate	ug/l	6	4.0 J	2.2 J	6	-
Fluoranthene	ug/l	255	ND (0.66)	ND (0.66)	ND (0.66)	-
Fluorene	ug/l	162	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorobenzene	ug/l	1	ND (0.62)	ND (0.62)	ND (0.62)	-
Hexachlorobutadiene	ug/l	6.32	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorocyclopentadiene	ug/l	50	ND (0.94)	ND (0.94)	ND (0.94)	-
Hexachloroethane	ug/l	9.14	ND (0.47)	ND (0.47)	ND (0.47)	-
Indeno(1,2,3-cd)pyrene	ug/l	0.117	ND (0.59)	ND (0.59)	ND (0.59)	-
Isophorone	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
1-Methylnaphthalene	ug/l	4.29	ND (0.47)	ND (0.47)	ND (0.47)	-
2-Methylnaphthalene	ug/l	16.7	ND (0.50)	0.56 J	ND (0.50)	-
2-Nitroaniline	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	-
3-Nitroaniline	ug/l	-	ND (0.57)	ND (0.57)	ND (0.57)	-
4-Nitroaniline	ug/l	-	ND (0.72)	ND (0.72)	ND (0.72)	-
Naphthalene	ug/l	1.11	1.0 J	1.3 J	ND (0.47)	-
Nitrobenzene	ug/l	1.01	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitrosodimethylamine	ug/l	-	ND (0.94)	ND (0.94)	ND (0.94)	-
N-Nitroso-di-n-propylamine	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitrosodiphenylamine	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	-
Phenanthrene	ug/l	-	ND (0.56)	ND (0.56)	ND (0.56)	-
Pyrene	ug/l	202	ND (0.77)	ND (0.77)	ND (0.77)	-
Pyridine	ug/l	4.96	ND (1.9)	ND (1.9)	ND (1.9)	-
1,2,4-Trichlorobenzene	ug/l	70	ND (0.47)	ND (0.47)	ND (0.47)	-

#### GC Semi-volatiles (SW246 8081B)

Aldrin	ug/l	0.0495	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
alpha-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
beta-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
delta-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
gamma-BHC (Lindane)	ug/l	0.2	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
alpha-Chlordane	ug/l	-	ND (0.0047)	ND (0.0047)	0.042 J	-
gamma-Chlordane	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
Dieldrin	ug/l	0.048	ND (0.0047)	ND (0.0047)	0.018 J*	-
4,4'-DDD	ug/l	1.35	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
4,4'-DDE	ug/l	1.03	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
4,4'-DDT	ug/l	0.73	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Endrin	ug/l	2	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Endosulfan sulfate	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Endrin aldehyde	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Endrin ketone	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Endosulfan-I	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
Endosulfan-II	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
Heptachlor	ug/l	0.4	ND (0.0047)	ND (0.0047)	ND (0.0047)	-



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water
Heptachlor epoxide	ug/l	0.2	ND (0.0047)	ND (0.0047)	ND (0.0047)	-
Methoxychlor	ug/l	40	ND (0.0094)	ND (0.0094)	ND (0.0094)	-
Toxaphene	ug/l	3	ND (0.94)	ND (0.94)	ND (0.94)	-

#### GC Semi-volatiles (SW846 8062A)

Aroclor 1016	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1221	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	-
Aroclor 1232	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	-
Aroclor 1242	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1248	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1254	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1260	ug/l	-	ND (0.19)	0.27 J	0.58	-

#### GC Semi-volatiles (SW846 8151A)

2,4-D	ug/l	70	ND (0.85)	ND (0.85)	ND (0.85)	-
2,4,5-TP (Silvex)	ug/l	50	ND (0.14)	ND (0.14)	ND (0.14)	-
2,4,5-T	ug/l	148	ND (0.14)	ND (0.14)	ND (0.14)	-
Dicamba	ug/l	461	ND (0.13)	ND (0.13)	ND (0.13)	-
Dinoseb	ug/l	-	ND (2.3)	ND (2.3)	ND (2.3)	-
Dalapon	ug/l	-	ND (4.7)	ND (4.7)	ND (4.7)	-
Dichloroprop	ug/l	-	ND (0.98)	ND (0.98)	ND (0.98)	-
2,4-DB	ug/l	115	ND (1.5)	ND (1.5)	ND (1.5)	-
MCP	ug/l	-	ND (60)	ND (60)	ND (60)	-
MCPA	ug/l	-	ND (98)	ND (98)	ND (98)	-
Pentachlorophenol	ug/l	1	ND (0.11)	ND (0.11)	ND (0.11)	-

#### Metals Analysis

Aluminum	ug/l	-	679	1580	1510	-
Antimony	ug/l	6	<6.0	<6.0	<6.0	-
Arsenic	ug/l	10	<10	<10	<10	-
Barium	ug/l	2000	<200	<200	<200	-
Beryllium	ug/l	4	<4.0	<4.0	<4.0	-
Cadmium	ug/l	5	<5.0	<5.0	5.2	-
Calcium	ug/l	-	37100	44800	45000	-
Chromium	ug/l	100	23.8	55.8	38.5	-
Cobalt	ug/l	4.68	<50	<50	<50	-
Copper	ug/l	1300	40.7	58.9	65.8	-
Iron	ug/l	-	1900	18300	4430	-
Lead	ug/l	15	92.8	181	166	-
Magnesium	ug/l	-	15100	15200	16100	-
Manganese	ug/l	50	48.7	222	103	-



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 3/2014)	BLD D NT EXT CENTER	BLD D NT EXT NORTH	BLD D NT EXT SOUTH	TRIP BLANK
Lab Sample ID:			FA12102-2	FA12102-1	FA12102-3	FA12102-6
Date Sampled:			1/29/2014	1/29/2014	1/29/2014	1/29/2014
Matrix:			Water	Water	Water	Trip Blank Water
Mercury	ug/l	2	0.75	1.1	1.5	-
Molybdenum	ug/l	-	<50	<50	<50	-
Nickel	ug/l	312	<40	<40	<40	-
Potassium	ug/l	-	<10000	<10000	<10000	-
Selenium	ug/l	50	<10	<10	<10	-
Silver	ug/l	77.9	<10	<10	<10	-
Sodium	ug/l	-	91000	92300	101000	-
Strontium	ug/l	-	238	296	272	-
Thallium	ug/l	-	<10	<10	<10	-
Tin	ug/l	-	<50	<50	176	-
Titanium	ug/l	-	19.6	42.4	54.5	-
Vanadium	ug/l	-	<50	<50	<50	-
Zinc	ug/l	4670	2380	4560	8800	-

**Footnotes:**

<sup>a</sup> Sample was treated with an anti-foaming agent.

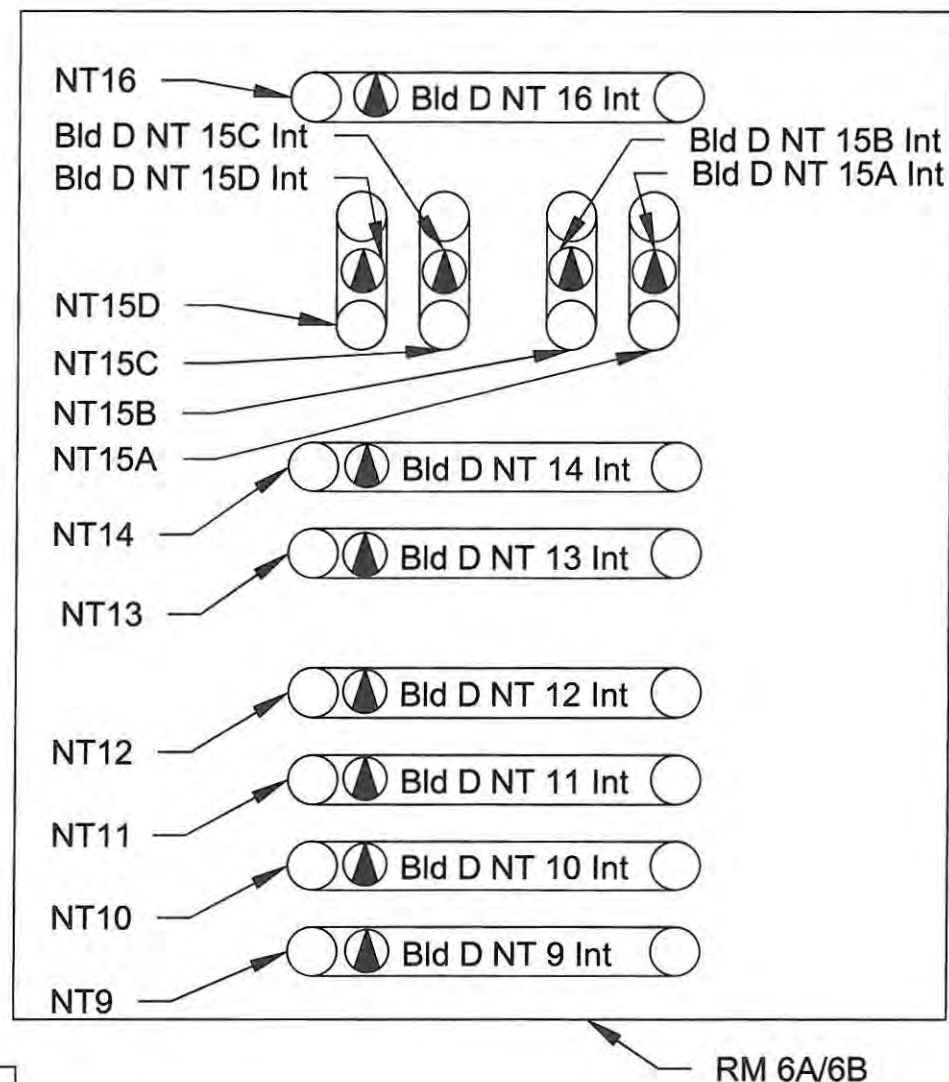
<sup>b</sup> Associated BS recovery outside control limits.

<sup>c</sup> Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.



# BUILDING D



## LEGEND

NT9	TANK IDENTIFICATION NUMBER
NT	NESTED TANK
Int.	Sample collected from water that came in contact with the interior of the tank.
	COMPOSITE SAMPLE

NOT TO SCALE

Note: Tanks are located in the rafters of Room 6A/6B in Building D



CLEAN HARBORS		
PROJECT NAME		
BUILDING D:		
NESTED TANK INTERIOR SAMPLES		
SHEET TITLE		
B. GERRER	B. WEAST	S. CINAR
PROJECT MGR	DRAWN BY:	CHECKED BY:
3-6-2014	1401030	1 / 1
DATE	JOB NO.	SHEET/OF



Accutest Laboratories Southeast, Inc.															
Job Number:	FA12775														
Account:	ISI Environmental Services														
Project:	Clean Harbors; Wichita, KS														
Project Number:															
												Legend:		Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D NT 9 INT	BLD D NT 10 INT	BLD D NT 11 INT	BLD D NT 12 INT	BLD D NT 13 INT	BLD D NT 14 INT	BLD D NT 15A INT	BLD D NT 15B INT	BLD D NT 15C INT	BLD D NT 15D INT	BLD D NT 16 INT	DUP 6 (BLD D NT 9 INT)	TRIP BLANK
Lab Sample ID:			FA12775-1	FA12775-2	FA12775-5	FA12775-3	FA12775-4	FA12143-4	FA12143-1	FA12775-6	FA12143-2	FA12143-3	FA12143-5	FA12775-7	FA12775-8
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	1/31/2014	1/31/2014	2/24/2014	1/31/2014	1/31/2014	1/31/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Trip Blank Water
GC/MS Volatiles (SW846 8260B)															
Acetone	ug/l	11500	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	61.8 J *	26.4 *	ND (11)	30	16.3 J	21.1 J	ND (11)	ND (11)
Acrolein	ug/l	0.0415	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	52.0 J *	8.7 J *	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)
Acrylonitrile	ug/l	0.491	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Benzene	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	0.29 J	4.1	ND (0.24)	4.6	4.5	1.9	ND (0.24)	ND (0.24)
Bromobenzene	ug/l	-	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Bromochloromethane	ug/l	-	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
Bromodichloromethane	ug/l	80	4	5	6.3	6.5	6.4	ND (0.26)	0.76 J	7.1	ND (0.26)	ND (0.26)	ND (0.26)	4.2	ND (0.26)
Bromoform	ug/l	80	0.73 J	0.99 J	1.2	1.1	1.3	ND (0.38)	ND (0.38)	1.6	ND (0.38)	ND (0.38)	ND (0.38)	0.72 J	ND (0.38)
n-Butylbenzene	ug/l	169	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	2.9	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
sec-Butylbenzene	ug/l	30.5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	1	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
tert-Butylbenzene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Chlorobenzene	ug/l	100	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	0.25 J	ND (0.24)	0.58 J	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Chloroethane	ug/l	14000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Chloroform	ug/l	80	3.1	4	4.7	4.9	5	ND (0.31)	0.56 J	5.2	ND (0.31)	ND (0.31)	ND (0.31)	3.3	ND (0.31)
o-Chlorotoluene	ug/l	88.9	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
p-Chlorotoluene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
2-Chloroethyl vinyl ether	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Carbon disulfide	ug/l	716	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Carbon tetrachloride	ug/l	5	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
1,1-Dichloroethane	ug/l	25	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
1,1-Dichloroethylene	ug/l	7	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1-Dichloropropene	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,2-Dibromo-3-chloropropane	ug/l	0.2	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
1,2-Dibromoethane	ug/l	0.05	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2-Dichloroethane	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2-Dichloropropane	ug/l	5	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,3-Dichloropropane	ug/l	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
2,2-Dichloropropane	ug/l	-	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Dibromochloromethane	ug/l	80	4.4	5.5	6.7	6.5	6.5	ND (0.36)	1	6.5	0.44 J	ND (0.36)	ND (0.36)	4.1	ND (0.36)



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D NT 9 INT	BLD D NT 10 INT	BLD D NT 11 INT	BLD D NT 12 INT	BLD D NT 13 INT	BLD D NT 14 INT	BLD D NT 15A INT	BLD D NT 15B INT	BLD D NT 15C INT	BLD D NT 15D INT	BLD D NT 16 INT	DUP 6 (BLD D NT 9 INT)	TRIP BLANK
Lab Sample ID:			FA12775-1	FA12775-2	FA12775-5	FA12775-3	FA12775-4	FA12143-4	FA12143-1	FA12775-6	FA12143-2	FA12143-3	FA12143-5	FA12775-7	FA12775-8
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	1/31/2014	1/31/2014	2/24/2014	1/31/2014	1/31/2014	1/31/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dichlorodifluoromethane	ug/l	366	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
cis-1,2-Dichloroethylene	ug/l	70	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
m-Dichlorobenzene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
o-Dichlorobenzene	ug/l	600	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
p-Dichlorobenzene	ug/l	75	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
trans-1,2-Dichloroethylene	ug/l	100	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
trans-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Ethylbenzene	ug/l	700	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	2.3	ND (0.28)	2.5	3	0.67 J	ND (0.28)	ND (0.28)
2-Hexanone	ug/l	-	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	7.8 J	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Hexachlorobutadiene	ug/l	6.32	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Isopropylbenzene	ug/l	451	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
p-Isopropyltoluene	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	0.98 J	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
4-Methyl-2-pentanone	ug/l	1020	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Methyl bromide	ug/l	7.02	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Methyl chloride	ug/l	127	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	2	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Methylene bromide	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Methylene chloride	ug/l	5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	6.6	ND (2.0)	ND (2.0)	ND (2.0)
Methyl ethyl ketone	ug/l	4920	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	7.4	ND (1.5)	ND (1.5)	5.7	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
Methyl Tert Butyl Ether	ug/l	133	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Naphthalene	ug/l	1.11	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	89.8	4.4	ND (1.0)	5.8	3.2	1.2 J	ND (1.0)	ND (1.0)
n-Propylbenzene	ug/l	660	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	0.37 J	0.45 J	ND (0.24)	0.54 J	0.62 J	ND (0.24)	ND (0.24)	ND (0.24)
Styrene	ug/l	100	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	5.35	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	200	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,1,2-Trichloroethane	ug/l	5	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
1,2,3-Trichlorobenzene	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,3-Trichloropropane	ug/l	0.00468	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
1,2,4-Trichlorobenzene	ug/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trimethylbenzene	ug/l	8.44	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	8.9	4.8	ND (0.24)	5.3	6.1	0.70 J	ND (0.24)	ND (0.24)
1,3,5-Trimethylbenzene	ug/l	44	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	1.3 J	1.0 J	ND (0.20)	1.3 J	1.5 J	ND (0.20)	ND (0.20)	ND (0.20)
Tetrachloroethylene	ug/l	5	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Toluene	ug/l	1000	0.22 J	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	0.58 J	12.9	ND (0.20)	12.8	14.2	3.5	0.22 J	ND (0.20)
Trichloroethylene	ug/l	5	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Trichlorofluoromethane	ug/l	1090	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Vinyl chloride	ug/l	2	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Vinyl Acetate	ug/l	406	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
m,p-Xylene	ug/l	10000	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	0.48 J	9.8	ND (0.48)	10.3	11.5	1.8 J	ND (0.48)	ND (0.48)
o-Xylene	ug/l	10000	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	0.35 J	4.7	ND (0.20)	5.2	6	1	ND (0.20)	ND (0.20)
GC/MS Semi-volatiles (SW846 E270D)															
Benzoic Acid	ug/l	-	13.5 J	ND (9.4)	ND (9.4)	ND (9.4)	ND (9.4)	ND (94) <sup>d</sup>	56.7 J <sup>a</sup>	ND (9.4)	165 J <sup>a</sup>	38.5 J <sup>a</sup>	15.9 J <sup>a</sup>	18.0 J	-
2-Chlorophenol	ug/l	-	3.1 J	ND (0.49)	ND (0.49)	2.0 J	ND (0.49)	ND (4.9)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	3.8 J	-



[illegible]



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D NT 9 INT	BLD D NT 10 INT	BLD D NT 11 INT	BLD D NT 12 INT	BLD D NT 13 INT	BLD D NT 14 INT	BLD D NT 15A INT	BLD D NT 15B INT	BLD D NT 15C INT	BLD D NT 15D INT	BLD D NT 16 INT	DUP 6 (BLD D NT 9 INT)	TRIP BLANK
Lab Sample ID:			FA12775-1	FA12775-2	FA12775-5	FA12775-3	FA12775-4	FA12143-4	FA12143-1	FA12775-6	FA12143-2	FA12143-3	FA12143-5	FA12775-7	FA12775-8
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	1/31/2014	1/31/2014	2/24/2014	1/31/2014	1/31/2014	1/31/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Trip Blank Water
3,3'-Dichlorobenzidine	ug/l	-	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (8.5)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	-
Dibenzo(a,h)anthracene	ug/l	0.00805	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (7.7)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	-
Dibenzofuran	ug/l	4.13	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	7.7 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Di-n-butyl phthalate	ug/l	1350	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (9.4)	2.6 J	ND (0.94)	2.8 J	1.9 J	ND (0.94)	ND (0.94)	-
Di-n-octyl phthalate	ug/l	18.4	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (9.4)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	-
Diethyl phthalate	ug/l	12200	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (9.4)	ND (0.94)	ND (0.94)	1.1 J	1.4 J	ND (0.94)	ND (0.94)	-
Dimethyl phthalate	ug/l	155000	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (5.9)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	-
bis(2-Ethylhexyl)phthalate	ug/l	6	ND (1.5)	ND (1.5)	2.1 J	ND (1.5)	ND (1.5)	ND (15)	3.6 J	ND (1.5)	ND (1.5)	ND (1.5)	9.8	2.7 J	-
Fluoranthene	ug/l	255	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	ND (6.6)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	1.4 J	ND (0.66)	-
Fluorene	ug/l	162	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	5.0 J	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorobenzene	ug/l	1	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (6.2)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	-
Hexachlorobutadiene	ug/l	6.32	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
Hexachlorocyclopentadiene	ug/l	50	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (9.4)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	-
Hexachloroethane	ug/l	9.14	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
Indeno(1,2,3-cd)pyrene	ug/l	0.117	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (5.9)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	-
Isophorone	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
1-Methylnaphthalene	ug/l	4.29	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	61.8	0.71 J	ND (0.47)	ND (0.47)	0.97 J	ND (0.47)	ND (0.47)	-
2-Methylnaphthalene	ug/l	16.7	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	84.2	1.2 J	ND (0.50)	ND (0.50)	1.6 J	ND (0.50)	ND (0.50)	-
2-Nitroaniline	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (11)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	-
3-Nitroaniline	ug/l	-	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (5.7)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	-
4-Nitroaniline	ug/l	-	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (7.2)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	-
Naphthalene	ug/l	1.11	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	47.7	5.5	ND (0.47)	5.5	4.4 J	1.2 J	ND (0.47)	-
Nitrobenzene	ug/l	1.01	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitrosodimethylamine	ug/l	-	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (9.4)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	-
N-Nitroso-di-n-propylamine	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
N-Nitrosodiphenylamine	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (5.0)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Phenanthrene	ug/l	-	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	15.6 J	1.0 J	ND (0.56)	2.8 J	0.92 J	0.65 J	ND (0.56)	-
Pyrene	ug/l	202	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (7.7)	ND (0.77)	ND (0.77)	0.84 J	ND (0.77)	5	ND (0.77)	-
Pyridine	ug/l	4.96	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (19)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	-
1,2,4-Trichlorobenzene	ug/l	70	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (4.7)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	-
GC Semi-volatiles (SW846 8061B)															
Aldrin	ug/l	0.0495	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
alpha-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-



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Lab Sample ID:			FA12775-1	FA12775-2	FA12775-5	FA12775-3	FA12775-4	FA12143-4	FA12143-1	FA12775-6	FA12143-2	FA12143-3	FA12143-5	FA12775-7	FA12775-8
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	1/31/2014	1/31/2014	2/24/2014	1/31/2014	1/31/2014	1/31/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Trip Blank Water
beta-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
delta-BHC	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
gamma-BHC (Lindane)	ug/l	0.2	ND (0.0047)	ND (0.0047)	0.054	0.099 *	ND (0.0047)	ND (0.023)	ND (0.023)	0.022 J	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
alpha-Chlordane	ug/l	-	0.036 J *	0.054 *	ND (0.0047)	0.14 *	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	0.047 *	-
gamma-Chlordane	ug/l	-	0.016 J *	0.016 J *	ND (0.0047)	0.0053 J *	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	0.031 J *	-
Dieldrin	ug/l	0.048	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
4,4'-DDD	ug/l	1.35	ND (0.0094)	ND (0.0094)	0.014 J	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
4,4'-DDE	ug/l	1.03	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
4,4'-DDT	ug/l	0.73	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Endrin	ug/l	2	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Endosulfan sulfate	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Endrin aldehyde	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Endrin ketone	ug/l	-	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Endosulfan-I	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
Endosulfan-II	ug/l	-	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
Heptachlor	ug/l	0.4	0.58	0.59	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	0.63	-
Heptachlor epoxide	ug/l	0.2	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.0047)	ND (0.023)	ND (0.023)	ND (0.0047)	ND (0.047)	ND (0.047)	ND (0.0093)	ND (0.0047)	-
Methoxychlor	ug/l	40	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.047)	ND (0.047)	ND (0.0094)	ND (0.093)	ND (0.094)	ND (0.019)	ND (0.0094)	-
Toxaphene	ug/l	3	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (4.7)	ND (4.7)	ND (0.94)	ND (9.3)	ND (9.4)	ND (1.9)	ND (0.94)	-
GC Semi-volatiles (SWB46 002A)															
Aroclor 1016	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1221	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.24)	-
Aroclor 1232	ug/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.24)	-
Aroclor 1242	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1248	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1254	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-
Aroclor 1260	ug/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-
GC Semi-volatiles (SWB46 6151A)															
2,4-D	ug/l	70	0.46 J	0.42 J	0.43 J	ND (0.17)	ND (0.17)	16.2 J	5.9 J *	0.25 J	13.1 J	9.5 J	ND (1.7)	0.51 J	-
2,4,5-TP (Silvex)	ug/l	50	ND (0.028)	ND (0.028)	ND (0.028)	ND (0.028)	ND (0.028)	ND (0.71)	ND (0.71)	ND (0.028)	ND (0.71)	ND (0.71)	ND (0.28)	ND (0.028)	-
2,4,5-T	ug/l	148	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.68)	2.3 J	ND (0.027)	7.9	12.6	ND (0.27)	ND (0.027)	-



Client Sample ID:		KS Tier 2 Risk Based Standards	BLD D NT 9 INT	BLD D NT 10 INT	BLD D NT 11 INT	BLD D NT 12 INT	BLD D NT 13 INT	BLD D NT 14 INT	BLD D NT 15A INT	BLD D NT 15B INT	BLD D NT 15C INT	BLD D NT 15D INT	BLD D NT 16 INT	DUP 6 (BLD D NT 9 INT)	TRIP BLANK
Lab Sample ID:		Residential	FA12775-1	FA12775-2	FA12775-5	FA12775-3	FA12775-4	FA12143-4	FA12143-1	FA12775-6	FA12143-2	FA12143-3	FA12143-5	FA12775-7	FA12775-8
Date Sampled:		GW (KDHE 03/2014)	2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	1/31/2014	1/31/2014	2/24/2014	1/31/2014	1/31/2014	1/31/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Trip Blank Water
Dicamba	ug/l	461	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	3.7	ND (0.65)	ND (0.026)	ND (0.65)	ND (0.65)	0.87 J	ND (0.026)	-
Dinoseb	ug/l	-	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (12)	ND (12)	ND (0.47)	ND (12)	ND (12)	ND (4.7)	ND (0.47)	-
Dalapon	ug/l	-	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (24)	ND (24)	ND (0.94)	ND (24)	ND (24)	ND (9.4)	ND (0.94)	-
Dichloroprop	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)	ND (5.0)	ND (0.20)	ND (5.0)	ND (5.0)	ND (2.0)	ND (0.20)	-
2,4-DB	ug/l	115	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (7.8)	ND (7.8)	ND (0.31)	ND (7.8)	ND (7.8)	ND (3.1)	ND (0.31)	-
MCP	ug/l	-	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (300)	ND (300)	ND (12)	ND (4800) <sup>†</sup>	ND (300)	ND (120)	ND (12)	-
MCPA	ug/l	-	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (490)	ND (490)	ND (20)	ND (490)	ND (490)	ND (200)	ND (20)	-
Pentachlorophenol	ug/l	1	0.034 J <sup>†</sup>	0.045 J	ND (0.022)	ND (0.022)	ND (0.022)	1.4 J	ND (0.54)	ND (0.022)	ND (0.54)	ND (0.54)	ND (0.22)	0.029 J <sup>†</sup>	-

#### Metals Analysis

Aluminum	ug/l	-	<200	<200	<200	<200	<200	2380	287	<200	1610	923	582	<200	-
Antimony	ug/l	6	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	17.7	10.7	<6.0	<6.0	-
Arsenic	ug/l	10	<10	<10	<10	<10	<10	39.7	<10	<10	<10	<10	<10	<10	-
Barium	ug/l	2000	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	-
Beryllium	ug/l	4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	-
Cadmium	ug/l	5	<5.0	<5.0	<5.0	<5.0	<5.0	159	<5.0	<5.0	<5.0	<5.0	118	<5.0	-
Calcium	ug/l	-	30900	29900	30500	30000	29900	119000	24400	29800	21900	30800	34800	30600	-
Chromium	ug/l	100	<10	<10	<10	<10	<10	498	577	<10	1280	836	95.7	<10	-
Cobalt	ug/l	4.68	<50	<50	<50	<50	<50	3510	<50	<50	<50	<50	<50	<50	-
Copper	ug/l	1300	112	27.5	57.5	87.8	31.1	1240	387	<25	688	748	190	70.9	-
Iron	ug/l	-	3860	3820	6500	6290	1570	96400	1980	1130	7490	8720	39900	4120	-
Lead	ug/l	15	8.7	6.8	76.3	74.7	24.9	1420	62.5	17.6	217	82.1	344	8.9	-
Magnesium	ug/l	-	14300	14400	15200	14700	15000	37700	12200	15200	8870	12500	13600	14700	-
Manganese	ug/l	50	54.3	50.8	184	143	56.2	16100	125	72.4	157	180	692	52.7	-
Mercury	ug/l	2	<0.50	<0.50	0.57	<0.50	<0.50	4950	1.2	<0.50	3.1	5.1	<500	<0.50	-
Molybdenum	ug/l	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
Nickel	ug/l	312	<40	<40	<40	<40	<40	340	<40	<40	43.9	52.3	595	<40	-
Potassium	ug/l	-	<10000	<10000	<10000	<10000	<10000	23000	<10000	<10000	<10000	11000	<10000	<10000	-
Selenium	ug/l	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Silver	ug/l	77.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Sodium	ug/l	-	88200	91500	89700	89000	91000	462000	157000	90200	272000	160000	88000	88700	-
Strontium	ug/l	-	204	206	220	209	212	1220	238	215	240	253	239	209	-
Thallium	ug/l	-	<10	<10	<10	<10	<10	22.3	<10	<10	<10	<10	<10	<10	-
Tin	ug/l	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
Titanium	ug/l	-	<10	<10	<10	<10	<10	48.2	<10	<10	18.3	<10	14.3	<10	-
Vanadium	ug/l	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
Zinc	ug/l	4670	146	91.8	246	186	77.2	146000	212	111	424	308	660	125	-

#### Footnotes:

<sup>†</sup> Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.



Accutest Laboratories Southeast, Inc.								
Job Number:	FA12779							
Account:	ISI Environmental Services							
Project:	Clean Harbors; Wichita, KS							
Project Number:								
Legend:						Detection	Exceed	
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D 14 INT	BLD D 15A INT	BLD D 15C INT	BLD D 15D INT	BLD D 16 INT	TRIP BLANK
Lab Sample ID:			FA12779-1	FA12779-3	FA12779-4	FA12779-5	FA12779-6	FA12779-2
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Trip Blank Water
GC/MS Volatiles (SW846 8260B)								
Acetone	ug/l	11500	ND (11)	ND (11)	ND (11)	ND (11)	-	ND (11)
Acrolein	ug/l	0.0415	-	-	-	-	-	ND (6.4)
Acrylonitrile	ug/l	0.491	-	-	-	-	-	ND (2.0)
Benzene	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)
Bromobenzene	ug/l	-	-	-	-	-	-	ND (0.31)
Bromochloromethane	ug/l	-	-	-	-	-	-	ND (0.38)
Bromodichloromethane	ug/l	80	7.3	7.7	7.7	7.6	-	ND (0.26)
Bromoform	ug/l	80	1.4	1.4	1.5	1.5	-	ND (0.38)
n-Butylbenzene	ug/l	169	-	-	-	-	-	ND (0.30)
sec-Butylbenzene	ug/l	30.5	-	-	-	-	-	ND (0.27)
tert-Butylbenzene	ug/l	-	-	-	-	-	-	ND (0.29)
Chlorobenzene	ug/l	100	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)
Chloroethane	ug/l	14000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-	ND (0.50)
Chloroform	ug/l	80	5.2	5.6	5.7	5.4	-	ND (0.31)
o-Chlorotoluene	ug/l	88.9	-	-	-	-	-	ND (0.23)
p-Chlorotoluene	ug/l	-	-	-	-	-	-	ND (0.29)
2-Chloroethyl vinyl ether	ug/l	-	-	-	-	-	-	ND (1.0) *
Carbon disulfide	ug/l	716	0.50 J	0.25 J	ND (0.20)	ND (0.20)	-	0.24 J
Carbon tetrachloride	ug/l	5	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	-	ND (0.40)
1,1-Dichloroethane	ug/l	25	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	-	ND (0.26)
1,1-Dichloroethylene	ug/l	7	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.25)
1,1-Dichloropropene	ug/l	-	-	-	-	-	-	ND (0.28)
1,2-Dibromo-3-chloropropane	ug/l	0.2	-	-	-	-	-	ND (0.78)
1,2-Dibromoethane	ug/l	0.05	-	-	-	-	-	ND (0.24)
1,2-Dichloroethane	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)
1,2-Dichloropropane	ug/l	5	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	-	ND (0.36)
1,3-Dichloropropane	ug/l	-	-	-	-	-	-	ND (0.34)
2,2-Dichloropropane	ug/l	-	-	-	-	-	-	ND (0.33)
Dibromochloromethane	ug/l	80	7.3	7.8	7.5	7.3	-	ND (0.36)
Dichlorodifluoromethane	ug/l	366	-	-	-	-	-	ND (0.33)
cis-1,2-Dichloroethylene	ug/l	70	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	-	ND (0.33)
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)



Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD D 14 INT	BLD D 15A INT	BLD D 15C INT	BLD D 15D INT	BLD D 16 INT	TRIP BLANK
Lab Sample ID:			FA12779-1	FA12779-3	FA12779-4	FA12779-5	FA12779-6	FA12779-2
Date Sampled:			2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014	2/24/2014
Matrix:			Water	Water	Water	Water	Water	Trip Blank Water
m-Dichlorobenzene	ug/l	-	-	-	-	-	-	ND (0.20)
o-Dichlorobenzene	ug/l	600	-	-	-	-	-	ND (0.29)
p-Dichlorobenzene	ug/l	75	-	-	-	-	-	ND (0.20)
trans-1,2-Dichloroethylene	ug/l	100	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	-	ND (0.34)
trans-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
Ethylbenzene	ug/l	700	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	-	ND (0.28)
2-Hexanone	ug/l	-	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	-	ND (2.0)
Hexachlorobutadiene	ug/l	6.32	-	-	-	-	-	ND (0.50)
Isopropylbenzene	ug/l	451	-	-	-	-	-	ND (0.20)
p-Isopropyltoluene	ug/l	-	-	-	-	-	-	ND (0.24)
4-Methyl-2-pentanone	ug/l	1020	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)
Methyl bromide	ug/l	7.02	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	-	ND (0.54)
Methyl chloride	ug/l	127	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	-	ND (0.53) <sup>a</sup>
Methylene bromide	ug/l	-	-	-	-	-	-	ND (0.29)
Methylene chloride	ug/l	5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	-	ND (2.0)
Methyl ethyl ketone	ug/l	4920	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	-	ND (1.5)
Methyl Tert Butyl Ether	ug/l	133	-	-	-	-	-	ND (0.20)
Naphthalene	ug/l	1.11	-	-	-	-	-	ND (1.0)
n-Propylbenzene	ug/l	660	-	-	-	-	-	ND (0.24)
Styrene	ug/l	100	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	5.35	-	-	-	-	-	ND (0.25)
1,1,1-Trichloroethane	ug/l	200	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	-	ND (0.34)
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	-	ND (0.27)
1,1,2-Trichloroethane	ug/l	5	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	-	ND (0.32)
1,2,3-Trichlorobenzene	ug/l	-	-	-	-	-	-	ND (0.50)
1,2,3-Trichloropropane	ug/l	0.00468	-	-	-	-	-	ND (0.57)
1,2,4-Trichlorobenzene	ug/l	70	-	-	-	-	-	ND (0.50)
1,2,4-Trimethylbenzene	ug/l	8.44	-	-	-	-	-	ND (0.24)
1,3,5-Trimethylbenzene	ug/l	44	-	-	-	-	-	ND (0.20)
Tetrachloroethylene	ug/l	5	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	-	ND (0.26)
Toluene	ug/l	1000	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
Trichloroethylene	ug/l	5	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)
Trichlorofluoromethane	ug/l	1090	-	-	-	-	-	ND (0.50)
Vinyl chloride	ug/l	2	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	-	ND (0.33)
Vinyl Acetate	ug/l	406	-	-	-	-	-	ND (2.0) <sup>a</sup>
Xylene (total)	ug/l	10000	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	-	-
m,p-Xylene	ug/l	10000	-	-	-	-	-	ND (0.48)
o-Xylene	ug/l	10000	-	-	-	-	-	ND (0.20)
GC/MS Semi-volatiles (SW846 8270D)								
Pentachlorophenol	ug/l	1	ND (4.7)	ND (4.7)	ND (4.8)	ND (4.8)	ND (4.7)	-
2-Methylnaphthalene	ug/l	16.7	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.50)	-





<b>Accutest</b>			
Job Number:	FA12143R		
Account:	ISI Environmental Services		
Project:	Clean Harbors; Wichita, KS		
Project Number:			
<b>Legend:</b>		Detection	Exceed
Client Sample ID:		<b>KS Tier 2 Risk Based Standards</b>  <b>Residential</b>  <b>GW (KDHE 03/2014)</b>	BLD D NT 14 INT
Lab Sample ID:			FA12143-4FR
Date Sampled:			1/31/2014
Matrix:			Water Filtered
<b>Metals Analysis</b>			
Chromium	ug/l	100	287
Cobalt	ug/l	30.6	3200
Lead	ug/l	15	200
<p>Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.</p>			



## Accutest Laboratories Southeast,

Job Number:	FA12080				
Account:	ISI Environmental Services				
Project:	Clean Harbors; Wichita, KS				
Project Number:	SUMMIT - FA12080				
			Legend:	Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	Bld D NT 13 INT	Bld D NT 11 INT	Bld D NT 15B INT
Lab Sample ID:			001	002	003
Date Sampled:			2/26/2014	2/26/2014	2/26/2014
Matrix:			Water	Water	Water

### DIOXIN / FURANS RESULTS

2378-TCDF	pg/L	-	ND(1.0)	ND(1.0)	ND(1.0)
12378-PeCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
23478-PeCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123478-HxCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123678-HxCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
234678-HxCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123789-HxCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
1234678-HpCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
1234789-HpCDF	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
OCDF	pg/L	4930000	ND(10)	ND(10)	ND(10)
2378-TCDD	pg/L	30	ND (1.0)	ND (1.0)	ND (1.0)
12378-PeCDD	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123478-HxCDD	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123678-HxCDD	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
123789HxCDD	pg/L	-	ND(5.0)	ND(5.0)	ND(5.0)
1234678-HpCDD	pg/L	-	ND(5.0)	12	ND(5.0)
OCDD	pg/L	-	11	110	56

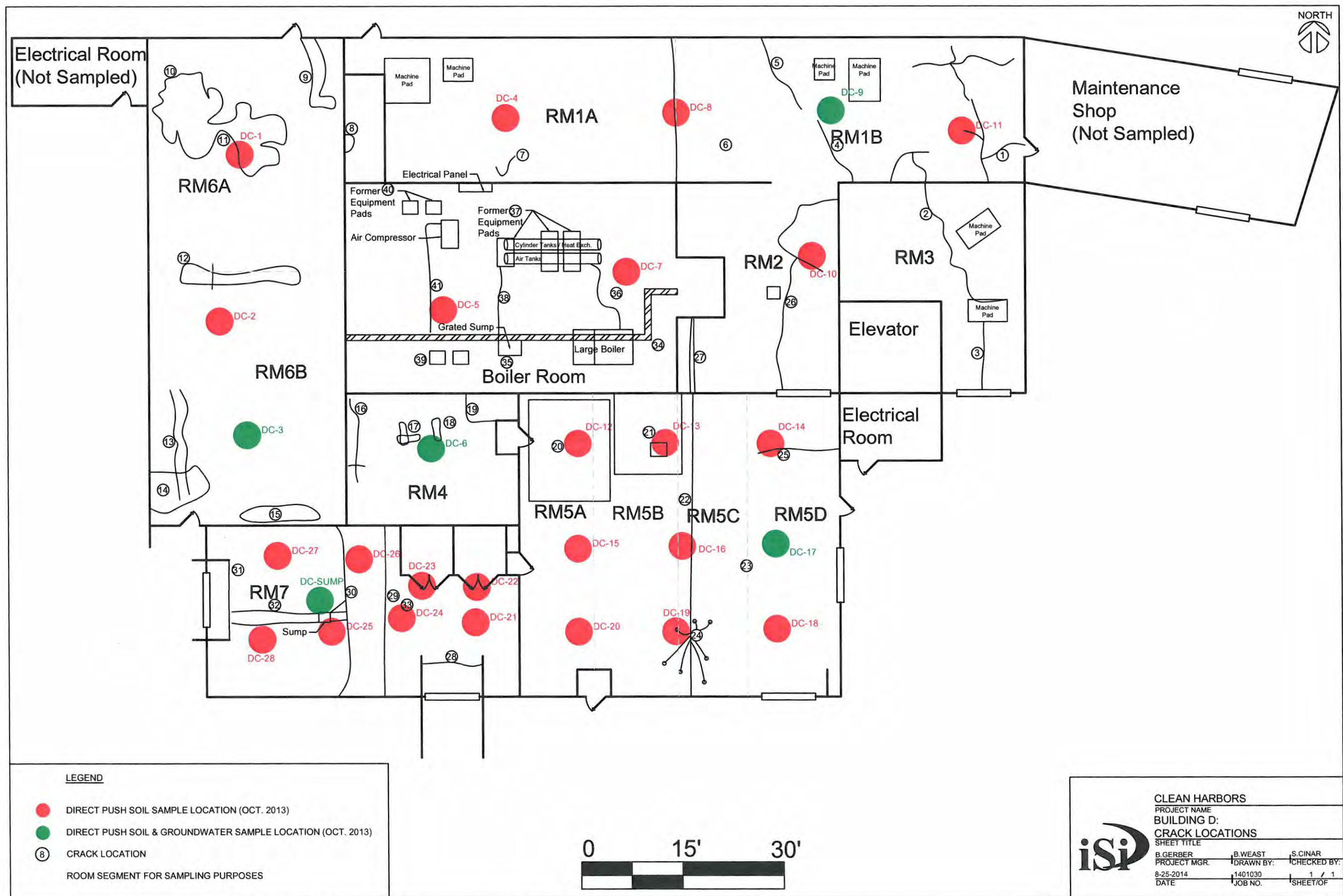
## **ATTACHMENT 2: Crack Survey of Building D**

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**Including:**

- Crack Survey Figure**
- Crack Survey Description Table**
- Orientated Color Photo Log of Cracks**





Clean Harbors Crack Survey  
Building D

Room	Crack ID	Description
RM1B	1	Sealed crack – 1/2 inch to 1 inch wide (Ground out, filled, and sealed). Boring completed through crack.
RM1B	2	Crack – not sealed, 1/16" wide
RM1B	3	Crack – not sealed, 1/16" wide
RM1B	4	Sealed crack
RM1B	5	Sealed crack – 3/4" wide
RM1B	6	Slab joint – sealed
RM1A	7	Slab to wall joint – fiberglass coated
RM1A	8	Fiberglass patched area (3' x 3')
RM6B	9	Fiberglass reinforced coating
RM6B	10	Small area of chipped/spalled topcoat (1' x 1')
RM6B	11	Area of missing topcoat ¼" to ½" thick – no penetrations
RM6B	12	4' x 4' area of missing topcoat and not bonded fiberglass
RM6B	13	Slab joint – utility trench –sealed with topcoat in places
RM6B	14	Area missing topcoat layer
RM6B	15	Area with topcoat not bonded to concrete
RM4	16	Crack – sealed
RM4	17	2' x 1' spalled area approximately 1" deep
RM4	18	2' x 1' spalled area approximately 1" deep
RM4	19	Slab joint – sealed, ¾" wide
RM5A	20	15' x 12' area where 3/8" topcoat is missing/removed
RM5B	21	10' x 12' area where 3/8" topcoat is missing/removed
RM5B	22	Slab joint – sealed, ½" wide
RM5C	23	Eastern ½ of room missing topcoat, various slab joints-all sealed
RM5C	24	Shallow anchor holes/points from former equipment, approximately 1 ½" in depth
RM5D	25	Crack – sealed, ½" wide
RM2	26	Crack- sealed, ½" wide (Crack ground out and sealed). Crack contains branches.
RM2	27	Utility trench, ½" crack-sealed.
RM7	28	Crack with fiberglass patch.
RM7	29	Slab joint, 1/2" wide-sealed
RM7	30	Slab joint with fiberglass patch over crack to sump
RM7	31	Crack-fiberglass coated
RM7	32	Joints to sump-sealed, ½" wide (1' wide utility cut in slab)
RM7	33	Unsealed boring location
Boiler RM	34	Utility trench. Slab joint on perimeter of trench-not sealed
Boiler RM	35	Sump (3'x3'x3') slab joints on perimeter-not sealed
Boiler RM	36	Crack-1/16" wide, not sealed
Boiler RM	37	Former machine pads, cracks around perimeter-not sealed
Boiler RM	38	Crack-not sealed
Boiler RM	39	Former machine pads-cracks around perimeter not sealed



Room	Crack ID	Description
Boiler RM	40	Former machine pads-cracks around perimeter not sealed
Boiler RM	41	Utility trench. Slab joint on perimeter of trench-not sealed.

Date: 1-13-14 and 1-22-14

Crack Survey Completed and Photographed by: Stuart B. Klaus, P.E., and Brady Gerber

Camera: Sony Cybershot Camera



1. Looking West. Sealed crack – ½” to 1” wide (Ground out, filled, and sealed).





1. Looking Northwest. Sealed crack –  $\frac{1}{2}$ " to 1" wide. Boring completed through crack.



2. Looking Northwest. Crack-not sealed, 1/16" wide.





3. Looking South. Crack – not sealed, 1/16" wide.



4. Looking South. Crack-sealed.



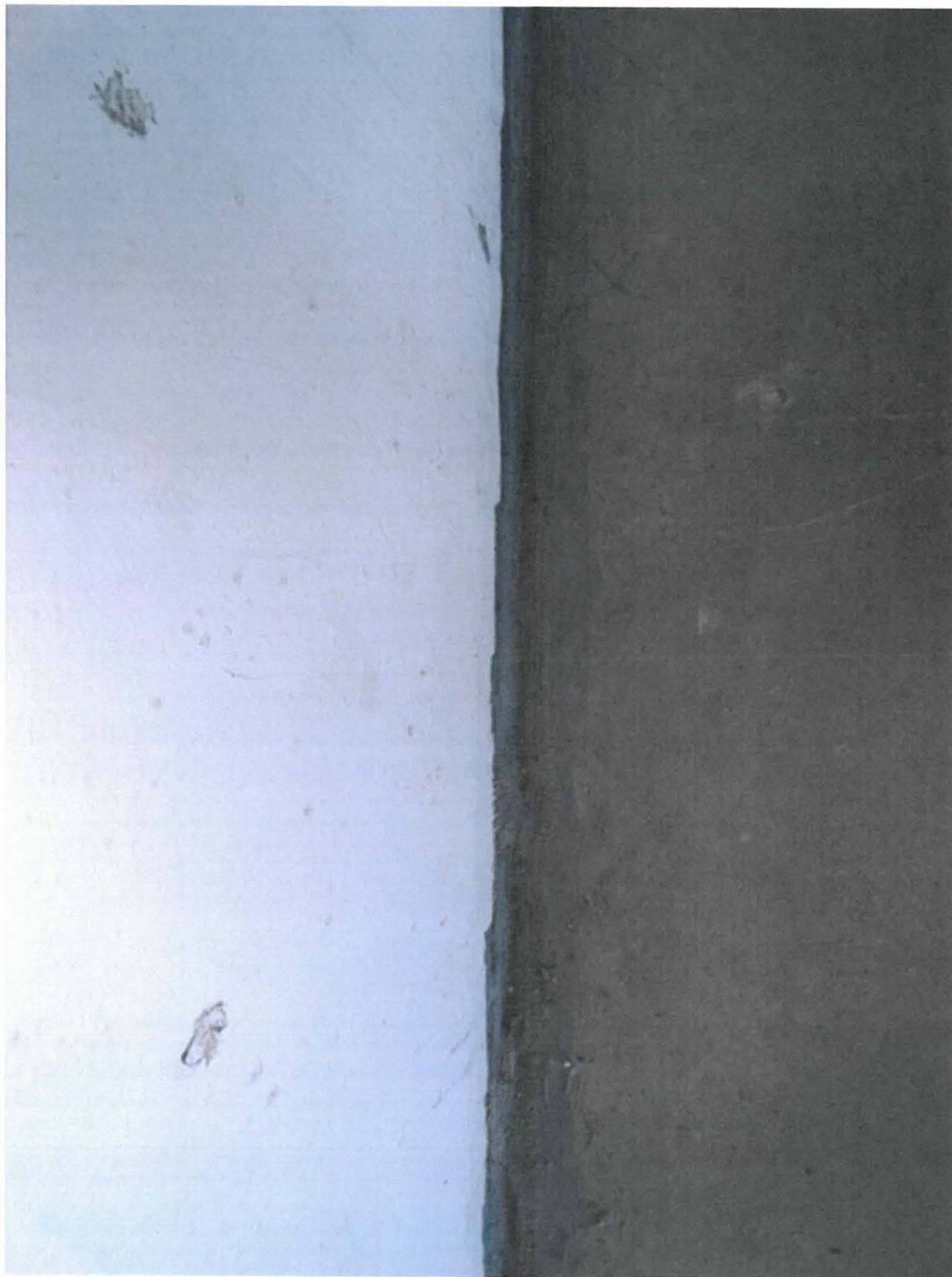


5. Looking Northwest. Crack-sealed,  $\frac{3}{4}$ " wide.



6. Looking North. Slab joint with boring through crack.  $\frac{1}{2}$ " wide and sealed.





7. Looking South. Wall to slab joint, sealed with concrete.



8. Looking East. Fiberglass patched area (3'x3').





9. Looking West. Fiberglass reinforced topcoat.



9. Looking North. Fiberglass reinforced topcoat.





10. Looking Northwest. Area of chipped topcoat (2'x2').



11. Looking Southeast. Area of missing topcoat 1/4" to 1/2" thick-no penetrations.





11. Looking Southeast. Area of missing topcoat  $\frac{1}{4}$ " to  $\frac{1}{2}$ " thick-no penetrations.



12. Looking Northwest. 4'x4' area of missing topcoat and not bonded fiberglass.





13. Looking South. Slab joint/utility trench.



13. Looking South. Slab joint/utility trench.





14. Looking Southwest. Area missing topcoat layer.



15. Looking Southeast. Area missing topcoat layer.





16. Looking Northwest. Crack-sealed.



17. Looking Northeast. 2' x 1' area of spalled concrete approximately 1" deep.





18. Looking North. 2' x 1' area of spalled concrete approximately 1" deep.



19. Looking North. Slab joint-sealed,  $\frac{3}{4}$ " wide.





20. Looking Northeast. 15' x 12' area where 3/8" topcoat is missing/removed.



21. Looking Northwest. 10' x 12' area where 3/8" topcoat is missing/removed.





22. Looking South. Slab joint-sealed, 1/2" wide.



23. Looking South. Eastern ½ of room missing topcoat, various slab joints-all sealed.





23. Looking Southwest. Easter  $\frac{1}{2}$  of room missing topcoat, various slab joints-all sealed.



24. Looking West. Shallow anchor holes/points from former equipment, approximately 1 ½" in depth.





24. Looking West. Shallow anchor holes/points from former equipment, approximately 1 ½" in depth.



24. Looking West. Shallow anchor holes/points from former equipment, approximately 1 ½" in depth.





25. Looking East. Crack-sealed,  $\frac{1}{2}$ " wide.



26. Looking North. Crack-sealed, ½" wide (Crack ground out and sealed). Crack contains branches.





27. Looking South. Utility trench, 1/2" crack-sealed.



28. Looking East. Crack with fiberglass patch.





29. Looking South. Slab joint,  $\frac{1}{2}$ " wide.



30. Looking South. Slab joint with fiberglass patch over crack to sump.





31. Looking North. Crack-fiberglass patched.

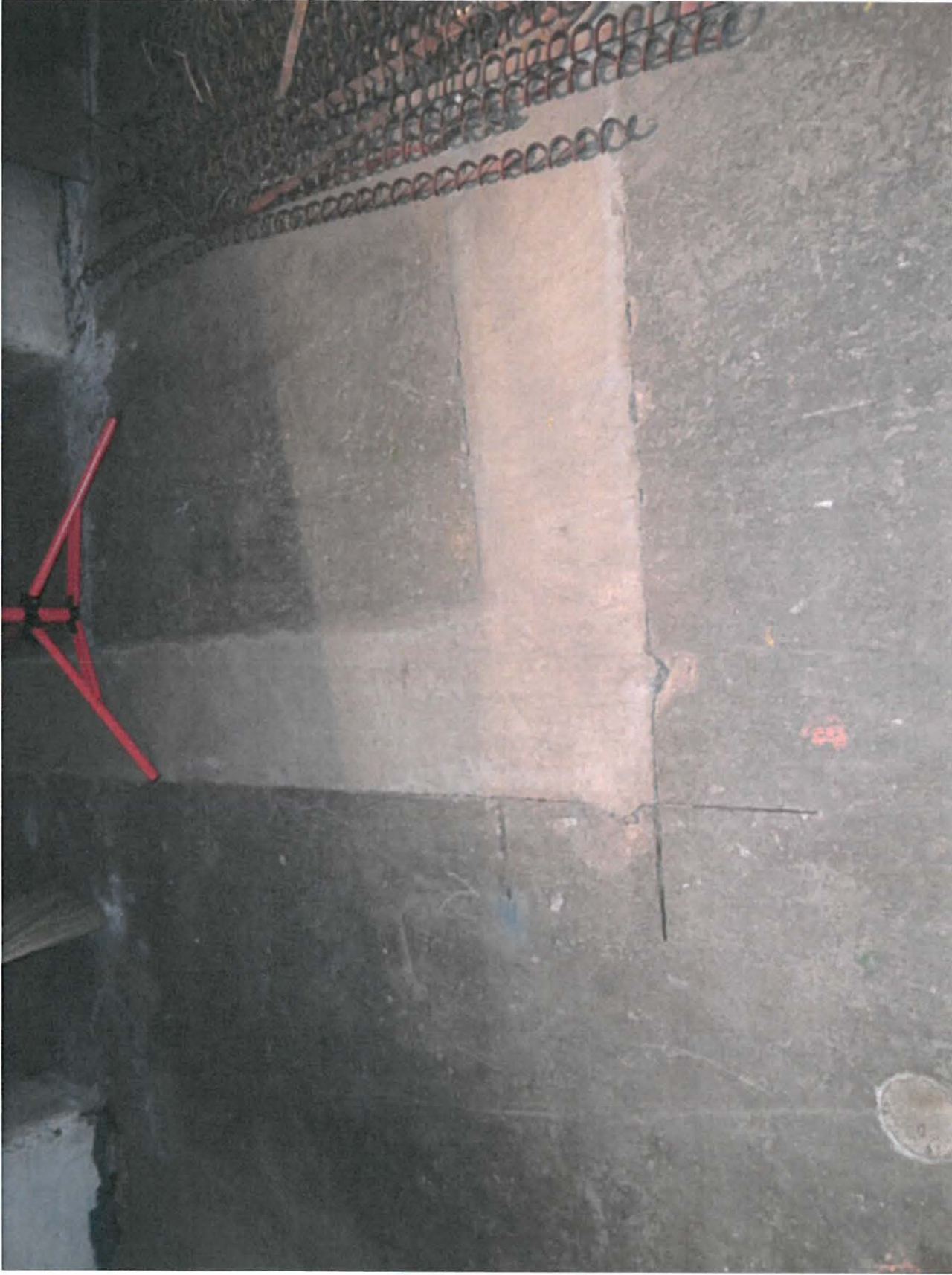


32. Looking East. Joints to sump-sealed,  $\frac{1}{2}$ " wide (1' wide utility cut in slab).





33. Looking East. Unsealed boring location.



34. Looking South. Utility trench. Slab joint on perimeter of trench-not sealed.





34. Looking West. Utility trench. Slab joint on perimeter of trench-not sealed.



35. Looking South. Sump (3'x3'x3') slab joints on perimeter-not sealed.





36. Looking North. Crack-1/16" wide, not sealed.



37. Looking North. Former machine pads, cracks around perimeter-not sealed.





37. Looking North. Former machine pads, cracks around perimeter-not sealed.



38. Looking Northwest. Crack-not sealed.





39. Looking Southeast. Former machine pads, cracks around perimeter-not sealed.



39. Looking Southeast. Former machine pads, cracks around perimeter-not sealed.





40. Looking North. Former machine pads-cracks around perimeter- not sealed.



40. Looking East. Former machine pads-cracks around perimeter-not sealed.





41. Looking North. Utility trench. Slab joint on perimeter of trench-not sealed.

# **ATTACHMENT 3: Shallow Soil Data Summary for Building D**

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**Including:**

- Soil Sample Location Figure**
- Analytical Results Table**





Electrical Room  
(Not Sampled)

Maintenance  
Shop  
(Not Sampled)

DC-1  
RM6A

DC-4  
RM1A

DC-8

DC-9  
RM1B

DC-11

DC-2

RM6B

DC-3

DC-5

DC-7

RM2

DC-10

RM3

Elevator

Boiler Room

RM4

DC-6

DC-12

DC-13

DC-14

Electrical Room

RM7

DC-27

DC-26

DC-23

DC-24

DC-22

DC-21

DC-28

DC-SUMP

DC-25

DC-24

DC-21

RM5A

RM5B

RM5C

RM5D

DC-15

DC-16

DC-17

DC-20

DC-19

DC-18

LEGEND

- DIRECT PUSH SOIL SAMPLE LOCATION (OCT. 2013)
- DIRECT PUSH SOIL & GROUNDWATER SAMPLE LOCATION (OCT. 2013)
- ROOM SEGMENT FOR SAMPLING PURPOSES



CLEAN HARBORS

PROJECT NAME  
BUILDING D:  
SHALLOW SOIL BORING LOCATION  
SHEET TITLE  
B. GERBER PROJECT MGR. B. WEAST DRAWN BY: S. CINAR CHECKED BY:  
8-25-2014 DATE 1401030 JOB NO. 1 / 1 SHEET/OF



**Building D Shallow Soil Samples Results (ug/Kg)**  
**Clean Harbors Wichita**

Sample ID	DC-1-0.5	DC-2-0.5	DC-3-0.5	DC-4-0.5	DC-5-0.5	DC-6-0.5	DC-7-0.5	DC-8-0.5	DC-9-0.5	DC-10-0.5	DC-11-0.5	DC-12-0.5	DC-13-0.5	DC-14-0.5	DC-15-0.5	DC-16-0.5
Boring ID	DC-1	DC-2	DC-3	DC-4	DC-5	DC-6	DC-7	DC-8	DC-9	DC-10	DC-11	DC-12	DC-13	DC-14	DC-15	DC-16
Depth (ft. bgs.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Date Collected	10/16/2013	10/10/2013	10/16/2013	10/10/2013	10/16/2013	10/16/2013	10/16/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013	10/9/2013	10/9/2013	10/16/2013
<b>Volatile Organic Compounds</b>																
1,1,1-Trichloroethane	2800	52.2	171	568	<3.5	1690	2220	40.0	<3.6	<4.5	3.8	<4.3	1830	55.4	27.7	2550
1,1,2,2-Tetrachloroethane	16	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,1,2-Trichloroethane	81	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,1-Dichloroethane	269	7.0	41.3	494	4.1	24.8	51.3	3.4	<3.6	44.9	<4.8	<4.3	34.6	7.9	<3.7	73.9
1,1-Dichloroethene	85.9	5.6	9.4	92.5	3.1	22.6	35.4	5.5	<3.6	2.1	<4.8	<4.3	45.0	6.6	4.4	39.7
1,2,4-Trimethylbenzene	1070	<3.1	<5.2	<3	132.0	<3	<3.7	<3	<3.6	4.1	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,2-Dichlorobenzene	48400	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,2-Dichloroethane	60	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,2-Dichloropropane	81.7	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,3,5-Trimethylbenzene	5510	<3.1	<5.2	1.5	12.0	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,4-Dichlorobenzene	5940	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
1,4-Dioxane	38.4	<120	1180	599	<140	<120	13000	<120	<140	<180	<190	<170	<180	<160	<150	<150
2-Butanone	24200	<16	<26	10.2	7.3	<15	<19	<15	7.0	27.7	<24	11.6	<23	<20	<18	<19
2-Hexanone	140000	<16	<26	<15	<18	<15	<19	<15	<18	<22	<24	<22	<23	<20	<18	<19
4-Isopropyltoluene	NA	<3.1	<5.2	<3	3.2	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
4-Methyl-2-Pentanone	6690	<16	<26	<15	<18	<15	<19	<15	<18	<22	<24	<22	<23	<20	<18	<19
Acetone	51600	<3.1	<5.2	64.5	55.3	<30	17.3	<30	35.0	170	<48	69.9	<46	<39	<37	<38
Benzene	168	<3.1	<5.2	2.3	1.8	<3	<3.7	<3	<3.6	4.6	<4.8	<4.3	<4.6	<3.9	<3.7	2.2
Carbon Disulfide	6710	<3.1	<5.2	6.0	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Carbon Tetrachloride	73.4	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Chlorobenzene	5100	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Chloroethane	128000	<3.1	<5.2	<3	2.9	<3	<3.7	<3	<3.6	32.2	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Chloroform	850	<3.1	3.1	3.9	<3.5	0.7	1.3	<3	<3.6	<4.5	<4.8	<4.3	2.0	<3.9	<3.7	3.8
Cis-1,2-Dichloroethene	855	135	7810	52100	52.1	6160	9100	75.6	4.1	4.4	<4.8	<4.3	2940	57.4	1.0	3850
Ethylbenzene	65600	<3.1	<5.2	<3	7.8	<3	<3.7	<3	<3.6	1.4	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Hexachlorobutadiene	1100	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Isopropylbenzene	65100	<3.1	<5.2	<3	5.0	<3	<3.7	<3	<3.6	16.9	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
M,P-Xylenes	809000	<6.2	<10	7.4	15.3	<6.1	<7.5	<6	<7.2	4.5	<9.6	<8.7	<9.2	<7.9	<7.3	1340
Methyl Tert-Butyl Ether	848	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Methylene Chloride	42.9	<6.2	<10	<5.9	<7.1	<6.1	<7.5	<6	<7.2	<8.9	<9.6	<8.7	<9.2	<7.9	<7.3	<7.6
Naphthalene	349	<3.1	<5.2	<3	3.7	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
N-Butylbenzene	50900	<3.1	<5.2	<3	6.2	<3	<3.7	<3	<3.6	7.9	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
N-Propylbenzene	110000	<3.1	<5.2	<3	10.2	<3	<3.7	<3	<3.6	32.8	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
O-Xylene	809000	<3.1	<5.2	3.3	1.5	<3	<3.7	<3	<3.6	2.5	<4.8	<4.3	<4.6	<3.9	<3.7	533
Sec-Butylbenzene	82700	<3.1	<5.2	<3	8.9	<3	<3.7	<3	<3.6	37.6	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Styrene	9340	<3.1	<5.2	<3	<3.5	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Tert-Butylbenzene	1000000	<3.1	<5.2	<3	2.3	<3	<3.7	<3	<3.6	31.9	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
Tetrachloroethene	121	214	64500	151000	<3.5	37500	44100	9720	3.1	<4.5	13.2	<4.3	43600	948	85.1	30800
Toluene	51200	6.3	<5.2	2.1	0.7	<3	<3.7	<3	<3.6	<4.5	<4.8	<4.3	<4.6	<3.9	<3.7	2.4
Trans-1,2-Dichloroethene	1220	2.1	13.4	80.0	1.1	8.5	19.1	1.5	<3.6	<4.5	<4.8	<4.3	14.7	1.9	<3.7	35.5
Trichloroethene	84.2	166	16200	21300	<3.5	7970	8470	1860	2.4	<4.5	<4.8	<4.3	13700	155	27.8	13700
Vinyl Chloride	20.5	<3.1	<5.2	2.1	<3.5	<3	<3.7	<3	<3.6	4.1	<4.8	<4.3	<4.6	<3.9	<3.7	<3.8
<b>Semi-Volatile Organic Compounds</b>																
1-Methylnaphthalene	2190	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
2,4-Dimethylphenol	29900	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
2-Methylnaphthalene	8340	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
2-Methylphenol	48600	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Acenaphthene	255000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Acenaphthylene		<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Aniline	1950	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Anthracene	3770000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Benzo(A)Anthracene	7890	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	21.2	<200
Benzo(A)Anthracene	7890	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	21.2	<200
Benzo(A)Pyrene	23500	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Benzo(B)Fluoranthene	19200	27.9	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	28.8	<200
Benzo(G,H,I)Perylene		<200	<210	NA	NA	NA	NA	NA	NA	NA	21.1	<210	<210	<210	<210	<200
Benzo(K)Fluoranthene	190000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200
Benzyl Alcohol		<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200



**Building D Shallow Soil Samples Results (ug/Kg)**  
**Clean Harbors Wichita**

Sample ID	DC-17-0.5	DC-18-0.5	DC-19-0.5	DC-20-0.5	DC-21-0.5	DC-22-0.5	DC-23-0.5	DC-24-0.5	DC-25-0.5	DC-26-0.5	DC-27-0.5	DC-28-0.5	DC-SUMP-0.5
Boring ID	DC-17	DC-18	DC-19	DC-20	DC-21	DC-22	DC-23	DC-24	DC-25	DC-26	DC-27	DC-28	DC-SUMP
Depth (ft. bgs.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Date Collected	10/17/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/17/2013
IAQ (ug/kg)													
<b>Volatile Organic Compounds</b>													
1,1,1-Trichloroethane	2800	9.2	59.6	47.1	<4.2	59.3	71.2	746	83.4	28.5	71.1	61.6	65.4
1,1,2,2-Tetrachloroethane	16	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,1,2-Trichloroethane	81	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,1-Dichloroethane	269	<3.2	11.3	21.0	68.0	15.9	38.4	46.5	15.8	5.7	17.5	12.2	10.5
1,1-Dichloroethene	85.9	<3.2	9.2	10.0	4.5	9.2	17.5	21.8	13.4	3.9	12.4	7.3	5.9
1,2,4-Trimethylbenzene	1070	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,2-Dichlorobenzene	48400	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,2-Dichloroethane	60	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,2-Dichloropropane	81.7	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,3,5-Trimethylbenzene	5510	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,4-Dichlorobenzene	5940	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
1,4-Dioxane	38.4	<130	<220	<180	<170	<130	<120	<120	<130	<94	<140	354	<140
2-Butanone	24200	<16	<27	<23	11.7	<16	<15	<15	<16	<12	<17	<17	<24
2-Hexanone	140000	<16	<27	<23	<21	<16	<15	<15	<16	<12	<17	<17	<24
4-Isopropyltoluene	NA	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
4-Methyl-2-Pentanone	6690	<16	<27	<23	<21	<16	<15	<15	<16	<12	<17	<17	<24
Acetone	51600	<32	<55	<46	63.3	<32	<31	<30	<31	<23	<34	<34	39.7
Benzene	168	<3.2	<5.5	<4.6	<4.2	<3.2	1.0	1.7	<3.1	<2.3	<3.4	0.7	<4.8
Carbon Disulfide	6710	<3.2	<5.5	<4.6	6.0	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Carbon Tetrachloride	73.4	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Chlorobenzene	5100	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Chloroethane	128000	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Chloroform	850	<3.2	<5.5	<4.6	<4.2	1.2	1.1	1.7	1.5	0.7	1.1	1.4	<4.8
Cis-1,2-Dichloroethene	855	1.7	165	2930	89.6	1260	1890	2330	2360	1230	6250	3980	580
Ethylbenzene	65600	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Hexachlorobutadiene	1100	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Isopropylbenzene	65100	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
m,p-Xylenes	809000	<6.5	<11	<9.2	<8.4	<6.3	62.1	<6	<6.3	<4.7	<6.8	<6.7	<9.7
Methyl Tert-Butyl Ether	848	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Methylene Chloride	42.9	<6.5	<11	<9.2	<8.4	<6.3	<6.1	<6	<6.3	<4.7	<6.8	<6.7	<9.7
Naphthalene	349	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
N-Butylbenzene	50900	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
N-Propylbenzene	110000	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
O-Xylene	809000	<3.2	<5.5	<4.6	<4.2	<3.2	31.8	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Sec-Butylbenzene	82700	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Styrene	9340	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Tert-Butylbenzene	10000000	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
Tetrachloroethene	121	28.3	4420	24900	12200	14800	12700	20000	39700	38100	48400	58800	10400
Toluene	51200	<3.2	<5.5	<4.6	<4.2	<3.2	1.9	<3	<3.1	156	<3.4	<3.4	<4.8
Trans-1,2-Dichloroethene	1220	<3.2	9.3	10.2	6.1	4.6	17.0	14.7	6.9	3.5	6.2	4.7	3.8
Trichloroethene	84.2	17.9	889	6490	4250	3480	5270	7370	7990	6850	11600	17400	2600
Vinyl Chloride	20.5	<3.2	<5.5	<4.6	<4.2	<3.2	<3.1	<3	<3.1	<2.3	<3.4	<3.4	<4.8
<b>Semi-Volatile Organic Compounds</b>													
1-Methylnaphthalene	2190	<210	<220	<200	<210	<210	182	<210	<200	<170	<5.3	30.3	<200
2,4-Dimethylphenol	29900	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
2-Methylnaphthalene	8340	<210	<220	<200	<210	<210	210	<210	<200	<170	<5.3	29.4	<200
2-Methylphenol	48600	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Acenaphthene	255000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Acenaphthylene		<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Aniline	1950	<210	<220	<200	<210	<210	<180	2680	<200	<170	<5.3	<200	NA
Anthracene	3770000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Benzo(A)Anthracene	7890	22.5	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	20.7	<200
Benzo(A)Anthracene	7890	22.5	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	20.7	<200
Benzo(A)Pyrene	23500	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Benzo(B)Fluoranthene	19200	<210	<220	<200	<210	<210	31.4	<210	<200	<170	<5.3	<200	NA
Benzo(G,H,I)Perylene		<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Benzo(K)Fluoranthene	190000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA
Benzyl Alcohol		<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	NA

**Building D Shallow Soil Samples Results (ug/Kg)**  
**Clean Harbors Wichita**

Sample ID		DC-1-0.5	DC-2-0.5	DC-3-0.5	DC-4-0.5	DC-5-0.5	DC-6-0.5	DC-7-0.5	DC-8-0.5	DC-9-0.5	DC-10-0.5	DC-11-0.5	DC-12-0.5	DC-13-0.5	DC-14-0.5	DC-15-0.5	DC-16-0.5
Boring ID		DC-1	DC-2	DC-3	DC-4	DC-5	DC-6	DC-7	DC-8	DC-9	DC-10	DC-11	DC-12	DC-13	DC-14	DC-15	DC-16
Depth (ft. bgs.)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Date Collected	IAQ (ug/kg)	10/16/2013	10/10/2013	10/16/2013	10/10/2013	10/16/2013	10/16/2013	10/16/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013	10/9/2013	10/9/2013	10/16/2013
Bis(2-Ethylhexyl) Phthalate	144000	<400	<420	NA	NA	NA	NA	NA	NA	NA	<420	<420	<420	<420	<420	40.4	<400
Butyl Benzyl Phthalate	478000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Carbazole	52700	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Chrysene	805000	20.8	<210	NA	NA	NA	NA	NA	NA	NA	36.7	<210	<210	<210	27.5	<200	<200
Dibenz(A,H)Anthracene	3080	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Dibenzofuran	7590	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Dimethyl Phthalate		<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Di-N-Butyl Phthalate	318000	<400	<420	NA	NA	NA	NA	NA	NA	NA	<420	<420	<420	<420	<420	297	<400
Fluoranthene	2830000	32.2	<210	NA	NA	NA	NA	NA	NA	NA	38.6	21.8	24.6	<210	32.1	<200	<200
Fluorene	297000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Hexachlorobenzene	1240	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Hexachlorobutadiene	1100	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Indeno(1,2,3-Cd)Pyrene	45500	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Isophorone	1800000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	10000	<200
M,-P-Cresol Mixture		<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Naphthalene	349	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
N-Nitrosodiphenylamine	350000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Phenanthrene		24.00	<210	NA	NA	NA	NA	NA	NA	NA	51.40	30.90	27.60	<210	34.80	<200	<200
Phenol	189000	<200	<210	NA	NA	NA	NA	NA	NA	NA	<210	<210	<210	<210	<210	<200	<200
Pyrene	2190000	32.70	<210	NA	NA	NA	NA	NA	NA	NA	42.30	24.30	23.10	<210	31.70	<200	<200
<b>Pesticides Herbicides and PCBs</b>																	
2,4,5-T	3750	<81	<42	<200	<43	<42	<87	<42	<33	<210	<83	<33	<41	<86	<41	<39	<79
2,4-D	NA	<810	<420	<2000	<430	<420	<870	<420	<330	<2100	<830	<330	<410	<860	<410	<390	<790
2,4-Db	NA	<810	<420	<2000	<430	<420	<870	<420	<330	<2100	<830	<330	<410	<860	<410	<390	<790
Dalapon	929	<4000	<2100	<10000	<2100	<2100	<4300	<2100	<1600	<10000	<4200	<1600	<2000	<4300	<2100	<2000	<4000
Dicamba	NA	<81	<42	<200	<43	<42	<87	<42	<33	<210	<83	<33	<41	<86	<41	<39	<79
Dichlorprop	NA	<810	<420	<2000	<430	<420	<870	<420	<330	<2100	<830	<330	<410	<860	<410	<390	<790
Dinoseb	NA	<2000	<1000	<5100	<1100	<1100	<2200	<1000	<820	<5100	<2100	<820	<1000	<2100	<1000	<980	<2000
Mcpa	NA	<81000	<42000	<200000	<43000	<42000	<87000	<42000	<33000	<210000	<83000	<33000	<41000	<86000	<41000	<39000	<79000
Mcpp	NA	<81000	<42000	<200000	<43000	<42000	<87000	<42000	<33000	<210000	<83000	<33000	<41000	<86000	<41000	<39000	<79000
Pentachlorophenol	996	<81	<42	<200	<43	<42	<87	<42	<33	<210	44.2 J	<33	<41	<86	<41	<39	<79
Silvex (2,4,5-TP)	NA	<81	<42	<200	<43	<42	<87	<42	<33	<210	<83	<33	<41	<86	<41	<39	<79
Pcb-1016	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1221	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1232	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1242	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1248	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1254	50000	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
Pcb-1260	NA	<20	NA	<21	NA	<21	<21	<21	NA	NA	NA	NA	NA	NA	NA	NA	<77
4,4'-DDD	31800	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	0.69 J	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
4,4'-DDE	24100	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
4,4'-DDT	24600	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
Aldrin	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
alpha-BHC	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Alpha-Chlordane	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
beta-BHC	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
delta-BHC	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<20
Dieldrin	193	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Endosulfan I	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Endosulfan II	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Endosulfan Sulfate	NA	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
Endrin	NA	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
Endrin Aldehyde	NA	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
Endrin Ketone	NA	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4
gamma-BHC (Lindane)	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Gamma-Chlordane	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Heptachlor	NA	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Heptachlor Epoxide	405	<2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2	<2.1	<2.1	<2.1	<2	<2
Methoxychlor	215000	<4	<4.3	<4.2	<4.3	<4.2	<4.3	<4.1	<4.3	<4.1	<4.2	<4.1	<4.1	<4.2	<4.1	<3.9	<4



**Building D Shallow Soil Samples Results (ug/Kg)**  
**Clean Harbors Wichita**

Sample ID	DC-17-0.5	DC-18-0.5	DC-19-0.5	DC-20-0.5	DC-21-0.5	DC-22-0.5	DC-23-0.5	DC-24-0.5	DC-25-0.5	DC-26-0.5	DC-27-0.5	DC-28-0.5	DC-SUMP-0.5	
Boring ID	DC-17	DC-18	DC-19	DC-20	DC-21	DC-22	DC-23	DC-24	DC-25	DC-26	DC-27	DC-28	DC-SUMP	
Depth (ft. bgs.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Date Collected	10/17/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/17/2013	
IAQ (ug/kg)														
Bis[2-Ethylhexyl] Phthalate	144000	141	<440	45.7	95.3	<430	<370	<410	<400	<330	<11	<400	<400	NA
Butyl Benzyl Phthalate	478000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Carbazole	52700	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Chrysene	805000	26.8	<220	22.2	<210	<210	51.5	<210	22.3	<170	<5.3	25.8	<200	NA
Dibenz(A,H)Anthracene	3080	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Dibenzofuran	7590	<210	<220	<200	<210	<210	62.5	<210	<200	<170	<5.3	<200	<200	NA
Dimethyl Phthalate		<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Di-N-Butyl Phthalate	318000	<420	<440	1980	<410	79	757	<410	<400	<330	<11	<400	<400	NA
Fluoranthene	2830000	26.7	<220	<200	<210	<210	32.6	<210	21.4	<170	<5.3	22.5	<200	NA
Fluorene	297000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Hexachlorobenzene	1240	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Hexachlorobutadiene	1100	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Indeno(1,2,3-Cd)Pyrene	45500	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Isophorone	1800000	<210	<220	472	29.9	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
M-,P-Cresol Mixture		<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Naphthalene	349	<210	<220	<200	<210	<210	90.30	<210	<200	<170	<5.3	<200	<200	NA
N-Nitrosodiphenylamine	350000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Phenanthrene		51.30	24.80	<200	<210	22.90	217.00	<210	34.90	<170	<5.3	44.50	<200	NA
Phenol	189000	<210	<220	<200	<210	<210	<180	<210	<200	<170	<5.3	<200	<200	NA
Pyrene	2190000	31.50	<220	<200	<210	<210	36.00	<210	27.20	<170	<5.3	20.30	<200	NA
Pesticides Herbicides and PCBs														
2,4,5-T	3750	<42	<44	<40	<41	<87	<180	<83	<40	<33	<33	<39	<41	<41
2,4-D	NA	<420	<440	<400	<410	<870	<1800	<830	<400	<330	<330	<390	<410	<410
2,4-Db	NA	<420	<440	<400	<410	<870	<1800	<830	<400	<330	<330	<390	<410	<410
Dalapon	929	<2100	<2200	<2000	<2000	<4400	<9200	<4200	<2000	<1600	<1700	<2000	<2100	<2000
Dicamba	NA	<42	<44	<40	<41	<87	<180	<83	<40	<33	<33	<39	<41	<41
Dichlorprop	NA	<420	<440	<400	<410	<870	<1800	<830	<400	<330	<330	<390	<410	<410
Dinoseb	NA	<1100	<1100	<990	<1000	<2200	<4600	<2100	<990	<820	<830	<990	<1000	<2000
Mcpa	NA	<42000	<44000	<40000	<41000	<87000	<180000	<83000	<40000	<33000	<33000	<39000	<41000	<41000
Mcpp	NA	<42000	<44000	<40000	<41000	<87000	<180000	<83000	<40000	<33000	<33000	<39000	<41000	<41000
Pentachlorophenol	996	<42	<44	<40	<41	<87	<180	<83	<40	<33	<33	<39	<41	<41
Silvex (2,4,5-TP)	NA	<42	<44	<40	<41	<87	<180	<83	<40	<33	<33	<39	<41	<41
Pcb-1016	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1221	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1232	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1242	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1248	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1254	50000	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
Pcb-1260	NA	NA	NA	NA	NA	<22	<18	<21	<20	<24	<61	<20	<20	<20
4,4'-DDD	31800	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	93.5
4,4'-DDE	24100	<4.2	<4.4	<20	<4.1	<4.3	4.6 J	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<4
4,4'-DDT	24600	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<4
Aldrin	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	1.1 J
alpha-BHC	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
Alpha-Chlordane	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
beta-BHC	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	1.3 J
delta-BHC	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<20	<17	<17	<20	<20	<2
Dieldrin	193	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
Endosulfan I	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	0.51 J
Endosulfan II	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
Endosulfan Sulfate	NA	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<2
Endrin	NA	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<4
Endrin Aldehyde	NA	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<4
Endrin Ketone	NA	<4.2	<4.4	<20	<4.1	<4.3	31.5 J	1.8 J	<4	<3.3	<3.4	<4.1	<4.1	<4
gamma-BHC (Lindane)	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<4
Gamma-Chlordane	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
Heptachlor	NA	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	1.7 J
Heptachlor Epoxide	405	<2.1	<2.2	<10	<2	<2.2	<18	<2.1	<2	<1.7	<1.7	<2	<2	<2
Methoxychlor	215000	<4.2	<4.4	<20	<4.1	<4.3	<36	<4.2	<4	<3.3	<3.4	<4.1	<4.1	<2

**Building D Shallow Soil Samples Results (ug/Kg)  
Clean Harbors Wichita**

Sample ID		DC-1-0.5	DC-2-0.5	DC-3-0.5	DC-4-0.5	DC-5-0.5	DC-6-0.5	DC-7-0.5	DC-8-0.5	DC-9-0.5	DC-10-0.5	DC-11-0.5	DC-12-0.5	DC-13-0.5	DC-14-0.5	DC-15-0.5	DC-16-0.5
Boring ID		DC-1	DC-2	DC-3	DC-4	DC-5	DC-6	DC-7	DC-8	DC-9	DC-10	DC-11	DC-12	DC-13	DC-14	DC-15	DC-16
Depth (ft. bgs.)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Date Collected		10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013
Toxaphene	46300	<100	<110	<100	<110	<110	<110	<100	<110	<100	<100	<100	<100	<100	<100	<98	<99
<b>Metals</b>																	
Aluminum	NA	10200	19400	18300	17000	15800	17400	17000	15000	11800	12000	11600	17400	15500	21800	8410	16700
Antimony	817	<1.1	<4.8	<5.6	<4.5	<5.3	<5.8	<5.3	<3.8	<3.7	<3.7	<3.8	<5	<5.6	<4.7	<0.97	<5.2
Arsenic	63.2	4	6	10	8	8	9	6	4	6	8	6	7	5	7	3	5
Barium	277000	90	193	225	197	182	174	193	188	142	173	184	162	194	199	148	203
Beryllium	3650	0	<1.2	<1.4	<1.1	<1.3	<1.5	<1.3	<0.96	<0.91	<0.93	<0.94	<1.3	<1.4	<1.2	1	<1.3
Boron	NA	NA	12	NA	11	NA	NA	NA	<10	11	11	10	<10	NA	<10	<9.2	NA
Cadmium	965	0	<0.96	<1.1	<0.89	<1.1	<1.2	<1.1	<0.76	<0.73	<0.75	<0.75	<1.0	<1.1	<0.94	1	<1.0
Calcium	NA	2370	3730	4760	3670	3420	3510	4030	4640	3360	3910	4120	3940	29100	3880	13700	3140
Chromium	111	11	20	20	18	18	19	19	14	12	13	13	18	17	21	20	16
Cobalt	579	4	<12	<14	<11	<13	<15	<13	<9.6	<9.1	<9.3	<9.4	<13	20	<12	5	<13
Copper	81700	10	15	26	19	21	24	18	11	13	18	17	17	23	15	19	9
Iron	NA	12200	18000	21600	17500	17300	17900	16600	14500	12600	12800	11400	17900	15200	19200	17000	16500
Lead	1000	18	16	65	39	44	54	34	15	21	38	37	29	12	18	71	11
Lithium	NA	NA	<500	NA	<500	NA	NA	NA	<510	<490	<490	<500	<510	NA	<520	<460	NA
Magnesium	NA	2520	4710	4590	3900	4020	4480	4410	3950	2930	3480	3610	4390	4070	4730	1940	4070
Manganese	66200	202	178	225	246	395	159	289	216	185	177	143	503	297	284	485	181
Mercury	20	<0.046	<0.05	0	<0.047	<0.048	<0.048	<0.05	<0.048	<0.047	<0.05	<0.047	<0.046	<0.046	<0.047	<0.047	<0.046
Molybdenum	NA	<2.9	<12	<14	<11	<13	<15	<13	<9.6	<9.1	<9.3	<9.4	<13	<14	<12	<2.4	<13
Nickel	32400	10	18	25	23	23	22	20	15	14	17	19	22	20	18	17	13
Potassium	NA	1900	3660	3820	3630	3290	3620	3400	2230	2390	2670	2480	3680	<2800	4350	1580	<2600
Selenium	10200	1	<4.8	<5.6	<4.5	<5.3	<5.8	<5.3	<3.8	<3.7	<3.7	<3.8	<5.0	<5.6	<4.7	<0.97	<5.2
Silver	10200	<0.57	<2.4	<2.8	<2.2	<2.6	<2.9	<2.6	<1.9	<1.8	<1.9	<1.9	<2.5	<2.8	<2.3	<0.49	<2.6
Sodium	NA	<570	<2400	<2800	<2200	<2600	<2900	<2600	<1900	<1800	<1900	<1900	<2500	<2800	<2300	<490	<2600
Strontium	NA	37	59	75	70	57	56	54	50	52	62	62	59	128	66	68	49
Thallium	NA	<1.1	<2.4	<2.8	<2.2	<2.6	<2.9	<2.5	<1.9	<1.8	<1.9	<1.9	<2.5	<2.8	<2.3	<0.49	<2.6
Tin	NA	<2.9	<12	<14	<11	<13	<15	<13	<9.6	<9.1	<9.3	<9.4	<13	<14	<12	<2.4	<13
Titanium	NA	160	142	170	150	116	155	137	73	63	58	62	119	162	159	134	162
Vanadium	NA	22	34	35	31	30	32	26	30	23	23	23	32	29	38	17	29
Zinc	613000	44	52	160	110	125	141	102	34	53	98	92	91	36	56	121	37

**Notes:**

IAO - Interim Action Objective (ug/kg) from the DRAFT Interim Measures Work Plan

NA - Not Applicable



**Building D Shallow Soil Samples Results (ug/Kg)**  
**Clean Harbors Wichita**

Sample ID		DC-17-0.5	DC-18-0.5	DC-19-0.5	DC-20-0.5	DC-21-0.5	DC-22-0.5	DC-23-0.5	DC-24-0.5	DC-25-0.5	DC-26-0.5	DC-27-0.5	DC-28-0.5	DC-SUMP-0.5
Boring ID		DC-17	DC-18	DC-19	DC-20	DC-21	DC-22	DC-23	DC-24	DC-25	DC-26	DC-27	DC-28	DC-SUMP
Depth (ft. bgs.)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Date Collected		10/17/2013	10/9/2013	10/9/2013	10/9/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/17/2013
Toxaphene	IAQ (ug/kg)	46300	<110	<110	<510	<100	<110	<910	<100	<100	<83	<84	<100	<100
<b>Metals</b>														
Aluminum	NA	19800	17100	17000	14500	16700	6280	12000	11300	13800	13100	13500	16200	17400
Antimony	817	<6.1	<5.2	<5.9	<6.1	<5.7	<3.8	<5.7	<4.7	<4.7	<4.3	<4.6	<5.2	<5.2
Arsenic	63.2	8	7	7	12	8	7	8	7	5	5	8	6	5
Barium	277000	225	173	480	257	200	86	156	159	151	146	179	172	185
Beryllium	3650	<1.5	<1.3	<1.5	<1.5	<1.4	1	<1.4	<1.2	<1.2	<1.1	<1.2	<1.3	<1.3
Boron	NA	NA	11	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	965	<1.2	<1.0	<1.2	<1.2	<1.1	1	1	<0.94	<0.93	<0.85	<0.92	<1.0	<1.0
Calcium	NA	7780	4120	10000	18100	6910	8170	8500	3460	3200	2990	3810	5600	5810
Chromium	111	26	19	33	57	24	12	18	14	15	17	17	17	18
Cobalt	579	<15	<13	<15	<15	<14	<9.5	<14	<12	<12	<11	<12	<13	<13
Copper	81700	22	17	20	45	20	44	20	20	12	14	23	14	12
Iron	NA	21300	15400	17700	27500	18400	49500	18800	16000	13700	14200	15700	16900	15600
Lead	1000	35	29	100	200	89	60	44	49	17	27	60	21	14
Lithium	NA	NA	<500	NA	<490	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	4360	4300	3720	3390	4010	<950	2820	2870	3620	3220	3390	3990	3870
Manganese	66200	542	93	377	1390	438	260	928	348	312	272	259	389	364
Mercury	20	<0.05	<0.049	0	<0.047	<0.049	0	<0.048	<0.046	<0.04	<0.037	0	<0.046	<0.05
Molybdenum	NA	<15	<13	<15	<15	<14	<9.5	<14	<12	<12	<11	<12	<13	<13
Nickel	32400	24	20	20	30	21	42	17	20	15	17	22	18	16
Potassium	NA	3990	3740	3610	<3000	3040	<1900	<2800	2460	2810	2760	2840	3370	3050
Selenium	10200	<6.1	<5.2	<5.9	<6.1	<5.7	6	<5.7	<4.7	<4.7	<4.3	<4.6	<5.2	<5.2
Silver	10200	<3.1	<2.6	<2.9	<3.0	<2.8	<1.9	<2.8	<2.3	<2.3	<2.1	<2.3	<2.6	<2.6
Sodium	NA	<3100	<2600	<2900	<3000	<2800	<1900	<2800	<2300	<2300	<2100	<2300	<2600	<2600
Strontium	NA	72	53	61	109	63	93	67	45	43	50	56	74	75
Thallium	NA	<3.1	<2.6	<2.9	<3.0	<2.8	<1.9	<2.8	<2.3	<2.3	<2.1	<2.3	<2.6	<2.6
Tin	NA	<15	<13	<15	<15	<14	<9.5	<14	<12	<12	<11	<12	<13	<13
Titanium	NA	173	157	177	224	122	239	147	108	109	102	120	119	95
Vanadium	NA	37	29	29	32	30	15	25	25	25	22	27	30	26
Zinc	613000	93	91	472	207	147	141	224	128	49	75	139	86	41

Notes:  
IAQ - Interim Action Objective (ug/kg) from the  
NA - Not Applicable